
Downtown Circulation Study

Rocky Mount, NC

Prepared for

City of Rocky Mount, NC

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March 2, 2006

EXECUTIVE SUMMARY

The City of Rocky Mount has undertaken this study to assess the impact of altering traffic patterns in the downtown area. The changes to traffic patterns under consideration include converting one-way streets to two-way operation and closing a railroad crossing in the downtown area. The study area includes the area designated as the “Downtown Smart Growth Area” as identified in the Comprehensive Plan for the City of Rocky Mount. This area is defined by the intersection of Raleigh Road and Grace Street in the southwest; extending north on Grace Street to the intersection of Grace Street and West Grand Avenue; east on West Grand Avenue to Atlantic Avenue; south on Atlantic Avenue and Arlington Street to the intersection of Arlington Street and South George Street; across the railway overpass west on Raleigh Road back to the intersection of Raleigh Road and Grace Street. All of the one-way streets in the downtown area were candidates for conversion to two-way operation while the rail crossings at Hill Street/Western Avenue and Nash Street/Marigold Street were considered for closure in this study. The objective of this study was to assess the impact of the changes on traffic operations, pedestrian mobility, parking, and the economic viability of the downtown businesses. The findings of this report will provide vital information to the Rocky Mount city council on the decisions to improve the downtown area.

Six scenarios were developed for the analysis of future year conditions. The No-Build alternative includes the projected traffic volumes expected to occur in 2025, but does not include any changes to the existing street network in the downtown area. As part of developing the other five alternative analysis scenarios, it was determined that a number of existing one-way streets could be easily converted to two-way operation and included in most of the future year analysis scenarios. The following streets were considered feasible two-way conversions due to the local impacts and low cost of implementation:

- Trevathan Street
- Gay Street
- Howard Street
- Washington Street
- Rose Street
- Falls Road

In addition to the feasible one-way street conversions, the following one-way streets were analyzed as two-way streets in the alternative scenarios:

- Thomas Street
- Sunset Avenue/Tarboro Street
- Hill Street/Western Avenue
- Nash Street/Marigold Street
- One block of Southeast Main Street between Marigold Street and Hill Street

The following rail crossings were also considered for closure as part of the alternative scenarios:

- Hill Street/Western Avenue
- Nash Street/Marigold Street

Preliminary alternatives were developed and submitted for review by downtown stakeholders and by staff of the City of Rocky Mount. After incorporating feedback from stakeholders, five alternative scenarios were carried forward for analysis. The one-way

street conversions and rail crossing closures identified above were combined to formulate the following five alternative analysis scenarios:

- Alternative 1 – This scenario included all of the feasible street conversions, the conversion of Main Street between Hill Street and Marigold Street to two-way operation, the conversion of the one-way pair of Hill Street/Western Avenue and Nash Street/Marigold Street to two-way operation, and the closure of the rail crossing on Nash Street/Marigold Street.
- Alternative 2 – This scenario is identical to Alternative 1 with the following exceptions:
 - Washington Street and Rose Street remain one-way streets
 - Thomas Street and Sunset Avenue/Tarboro Street are converted to two-way operation.
- Alternative 3 – This scenario included all of the feasible street conversions, the conversion of the one-way pair of Hill Street/Western Avenue and Nash Street/Marigold Street to two-way operation, and the closure of the rail crossing on Hill Street/Western Avenue.
- Alternative 4 – This scenario is identical to Alternative 3 with the following exceptions:
 - Washington Street and Rose Street remain one-way streets
 - Thomas Street and Sunset Avenue/Tarboro Street are converted to two-way operation.
- Alternative 5 – This scenario included most of the feasible one-way street conversions plus the conversion of all of the major streets in the downtown area (Thomas Street, Sunset Avenue/Tarboro Street, Hill Street/Western Avenue, Nash Street/Marigold Street, Franklin Street, and Church Street) to two-way operation. However, all railroad crossings in the downtown area remain open to vehicular crossing traffic in this scenario and Washington Street and Rose Street remain as one-way streets.

Analyses were performed to assess peak hour level of service at intersections in the study area. The level of service analyses were performed for existing conditions as well as the six scenarios of future year conditions. Existing peak hour traffic volumes were increased by an annual growth rate of two percent to account for growth of background traffic in the study area. Vehicle trips were also generated for proposed land use changes in the downtown area and were added to the background traffic to estimate peak hour traffic in year 2025.

The level of service analyses indicate that the existing signalized intersections in the study area are all operating at acceptable level of service (LOS), however the analyses also suggest that the intersections adjacent to the rail crossings in the core downtown area will be most impacted by the proposed traffic pattern changes and increased traffic volumes. The resulting LOS results are summarized in the following tables.

| Alternative | Intersection Operating at Unacceptable LOS (LOS E or worse) |
|---------------------|---|
| Existing Conditions | <ul style="list-style-type: none"> None |
| No-Build Conditions | <ul style="list-style-type: none"> None |
| Alternative 1 | <ul style="list-style-type: none"> Hill Street/Western Avenue at Main Street |
| Alternative 2 | <ul style="list-style-type: none"> Sunset Avenue/Tarboro Street at Main Street Hill Street/Western Avenue at Main Street |
| Alternative 3 | <ul style="list-style-type: none"> Nash Street/Marigold Street at Main Street |
| Alternative 4 | <ul style="list-style-type: none"> Sunset Avenue/Tarboro Street at Main Street Nash Street/Marigold Street at Main Street |
| Alternative 5 | <ul style="list-style-type: none"> Sunset Avenue at Church Street Sunset Avenue/Tarboro Street at Main Street |

The following tables summarize the impact of each alternative and ranks the alternatives relative to one another based on average vehicle delay and average vehicle speed.

| Alternative | Average Vehicle Delay (sec/veh) | | | | Average Rank | Overall Rank |
|---------------------|---------------------------------|------|-----------|------|--------------|--------------|
| | A.M. Peak | Rank | P.M. Peak | Rank | | |
| No-Build Conditions | 00:11 | - | 00:12 | - | - | - |
| Alternative 1 | 00:17 | 1 | 00:19 | 2 | 1.5 | 2 |
| Alternative 2 | 00:24 | 5 | 00:26 | 3 | 4 | 3 |
| Alternative 3 | 00:17 | 1 | 00:14 | 1 | 1 | 1 |
| Alternative 4 | 00:20 | 4 | 00:30 | 4 | 4 | 3 |
| Alternative 5 | 00:19 | 3 | 00:42 | 5 | 4 | 3 |

Note: Alternatives are ranked 1 through 5, lowest average delay to highest average delay.

| Alternative | Average Vehicle Speed (mph) | | | | Average Rank | Overall Rank |
|---------------------|-----------------------------|------|-----------|------|--------------|--------------|
| | A.M. Peak | Rank | P.M. Peak | Rank | | |
| No-Build Conditions | 14 | - | 13 | - | - | - |
| Alternative 1 | 11 | 1 | 10 | 2 | 1.5 | 2 |
| Alternative 2 | 9 | 5 | 9 | 3 | 4 | 3 |
| Alternative 3 | 11 | 1 | 12 | 1 | 1 | 1 |
| Alternative 4 | 10 | 4 | 8 | 4 | 4 | 3 |
| Alternative 5 | 11 | 1 | 6 | 5 | 3 | 3 |

Note: Alternatives are ranked 1 through 5, highest average speed to lowest average speed.

In addition to peak hour level of service analyses, future year P.M. peak hour travel times were estimated for a set of origins and destinations for comparison between the alternative scenarios. Travel times for emergency response from Fire Station 1 were also estimated for each of the future year alternatives. As reflected in the travel time estimates, the reduction in vehicular capacity crossing the railroad tracks results in increased travel times across the study area. The table below shows how the

alternatives rank relative to one another based on the estimated P.M. peak hour travel times for the origins and destinations shown.

Alternative Ranking by P.M. Peak Hour Travel Time

| Origin | Destination | No-Build | Alt. 1 | | Alt. 2 | | Alt. 3 | | Alt. 4 | | Alt. 5 | |
|----------------------------------|--------------------------------|-------------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | | Travel Time | Travel Time | Rank | Travel Time | Rank | Travel Time | Rank | Travel Time | Rank | Travel Time | Rank |
| Sunset Avenue at Grace Street | Nash Street at Main Street | 3:02 | 2:33 | 1 | 2:53 | 2 | 3:03 | 3 | 3:22 | 4 | 3:53 | 5 |
| | Hill Street at Main Street | 3:47 | 1:59 | 1 | 4:22 | 3 | 3:42 | 2 | 5:46 | 5 | 5:31 | 4 |
| | Marigold Street at Main Street | 3:06 | 2:25 | 1 | 4:48 | 3 | 3:13 | 2 | 5:03 | 5 | 6:36 | 4 |
| Thomas Street at Atlantic Avenue | Nash Street at Main Street | 3:05 | 4:16 | 2 | 5:26 | 3 | 3:07 | 1 | 6:28 | 4 | 6:31 | 5 |
| | Hill Street at Main Street | 3:51 | 3:42 | 1 | 5:11 | 3 | 3:46 | 2 | 7:21 | 5 | 5:38 | 4 |
| | Marigold Street at Main Street | 3:10 | 4:08 | 2 | 5:36 | 3 | 3:17 | 1 | 6:37 | 5 | 5:45 | 4 |
| Average Rank | | - | 1.6 | | 2.8 | | 1.8 | | 4.6 | | 4.3 | |
| Overall Rank | | - | 1 | | 3 | | 2 | | 5 | | 4 | |

Note: Alternatives are ranked 1 through 5, least travel time to most travel time.

Emergency vehicles are affected by changes to the downtown street operations just as other vehicles traveling in the downtown area. Analysis of estimated peak hour travel times for emergency vehicles from Fire Station 1 to the intersection of Thomas Street and Church Street indicate that Alternatives 3 and 4 would have the most significant impact on travel time. The table below ranks the alternatives relative to one another based on the estimated P.M. peak hour travel times between Fire Station 1 and the intersection of Thomas Street and Church Street. While the results indicate an increase in travel time, responding to the intersection of Thomas Street and Church Street constitutes the worst-case scenario in terms of travel time and distance from Fire Station 1. It also must be recognized that the travel times reported are for the P.M. peak hour. Travel times during off-peak periods would not be expected to reach these levels.

Alternative Ranking by Fire Station 1 P.M. Peak Hour Travel Time

| Origin | Destination | No-Build | Alt. 1 | Alt. 2 | Alt. 3 | Alt. 4 | Alt. 5 |
|----------------|--------------------------------|----------|--------|--------|--------|--------|--------|
| Fire Station 1 | Thomas Street at Church Street | 2:42 | 4:28 | 4:11 | 5:11 | 6:07 | 3:48 |
| Rank | | - | 3 | 2 | 4 | 5 | 1 |

Note: Alternatives are ranked 1 through 5, least travel time to most travel time.

Simtraffic analysis outputs indicate that the conversion of the east-west streets to two-way operation will result in significant increases in traffic queues on the approaches to

Main Street. The table below shows the how the alternatives rank relative to one another based on estimated P.M. peak hour traffic queues.

Alternative Ranking by P.M. Peak Hour Traffic Queues at Main Street

| Street | No-Build | | Alternative 1 | | Alternative 2 | | Alternative 3 | | Alternative 4 | | Alternative 5 | |
|-----------------------|----------|------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|------|
| | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB |
| Thomas St | - | 115' | - | 75' | 25' | 200' | - | 115' | 160' | 235' | 100' | 120' |
| Sunset Ave/Tarboro St | 180' | - | 55' | - | 340' | 210' | 100' | - | 385' | 205' | 345' | 235' |
| Western Ave/Hill St | - | 145' | 385' | 240' | 220' | 280' | - | - | - | - | 100' | 245' |
| Nash St/Marigold St | 55' | - | - | - | - | - | 305' | 160' | 285' | 175' | 75' | 75' |
| Average Queue | 118' | 130' | 220' | 158' | 195' | 230' | 203' | 138' | 277' | 205' | 155' | 169' |
| Rank by Direction | - | - | 4 | 2 | 2 | 5 | 3 | 1 | 5 | 4 | 1 | 3 |
| Average Rank | - | | 3 | | 3.5 | | 4 | | 4.5 | | 2 | |
| Overall Rank | - | | 2 | | 3 | | 4 | | 5 | | 1 | |

Notes: [1] The average block lengths along the east-west streets are 400' for the eastbound streets and 270' for the westbound streets.

[2] Alternatives are ranked 1 through 5, shortest queues to longest queues

Some general conclusions can also be made concerning traffic circulation and access. Either of the rail crossings under consideration for closure will significantly impact traffic circulation in the downtown area. Closing either of the railroad crossings under consideration would also require the conversion of Hill Street/Western Avenue and Nash Street/Marigold Street to two-way operation. In addition, it may be desirable to convert a block of Main Street to two-way operation to maintain an acceptable level of accessibility should the Nash Street/Marigold Street crossing be closed.

Closing the railroad crossing on Hill Street/Western Avenue would have less impact on the counterclockwise traffic circulation in the downtown than will closing the railroad crossing on Nash Street/Marigold Street. If the railroad crossing on Hill Street/Western Avenue were closed, then the existing counterclockwise circulation pattern would remain intact. However, if the Nash Street/Marigold Street rail crossing were closed, the existing counterclockwise circulation pattern would be interrupted and shortened by a block, significantly impacting the accessibility to the land uses on the block of Main Street between Hill Street/Western Avenue and Nash Street/Marigold Street.

Analyses were also performed to assess the relative economic impact of each alternative. The analyses included interviewing the downtown stakeholders to assess the current business climate in the downtown area and to gauge the economic future of the downtown area. A model was developed to assess the relative economic impacts of

each alternative based on the prevailing traffic patterns created by each alternative. The conclusions of the economic analysis is summarized below:

- Other factors besides traffic will likely influence retail sales more than traffic modifications
- By diverting additional traffic onto Main Street, Alternative 3 and Alternative 4 could potentially generate higher design year retail sales than the No-Build scenario
- Alternatives 3 and 4 create a positive impact and are projected to exceed No-Build retail sales by \$7.8 million and \$8.8 million or 14.1% and 15.9% respectively (average annual change of 0.6% and 0.7% respectively)
- Alternatives 1, 2, and 5 are projected to generate fewer design year retail traffic and sales than the No-Build scenario decreasing sales by \$3.0 million, \$2.4 million, and \$3.6 million or 5.5%, 4.5%, and 6.5% respectively (average annual changes of 0.25%, 0.20%, and 0.29% respectively)
- All alternatives generate slightly more retail traffic than No-Build in the general area between the intersections of Main Street with Sunset Avenue and Hill Street/Western Avenue with Alternatives 3 and 4 generating moderately more retail traffic

The table below summarizes the impact of each alternative on retail sales in the downtown area.

| | No-Build | Alternative 1 | Alternative 2 | Alternative 3 | Alternative 4 | Alternative 5 |
|----------------------------|-----------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Annual Retail Sales | \$55.5 M | \$52.5 M | \$53.0 M | \$63.40 M | \$64.37 M | \$51.0 |
| Rank | - | 4 | 3 | 2 | 1 | 5 |

Implementation costs for the improvements required for each alternative were developed. The preliminary cost estimates include items ranging from the cost of upgrading pavement markings in order to accommodate two-way traffic to realigning a portion of Sunset Avenue and Thomas Street in the vicinity of City Lake to facilitate the conversion of Sunset Avenue and Thomas Street to two-way operation. Cost estimates across the five (5) build alternatives range from \$600,000 to \$2,300,000.

Alternative Ranking by Implementation Cost

| Alternative | Anticipated Implementation Cost | Rank |
|--------------------|--|-------------|
| Alternative 1 | \$670,000 | 2 |
| Alternative 2 | \$1,900,000 | 4 |
| Alternative 3 | \$600,000 | 1 |
| Alternative 4 | \$1,800,000 | 3 |
| Alternative 5 | \$2,300,000 | 5 |

Findings

A number of measures were developed in this study to assess the impact of each alternative on traffic operations in the downtown area. The alternatives have been ranked relative to one another based on each of these measures. The table below summarizes those rankings based on average vehicle delay, average vehicle speed, average P.M. peak hour traffic queues at Main Street, average P.M. peak hour travel time between specified origins, average P.M. peak hour travel times between Fire Station 1 and the intersection of Thomas Street and Church Street, anticipated Implementation Costs, and impact on retail traffic.

Overall Alternative Ranking

| Alternative | Average Vehicle Delay | Average Vehicle Speed | Average P.M. Peak Hour Queues | Average P.M. Peak Hour Travel Times | Average Fire Station 1 P.M. Peak Hour Travel Times | Anticipated Implementation Cost | Impact on Retail Traffic | Average Ranking | Overall Ranking |
|-------------|-----------------------|-----------------------|-------------------------------|-------------------------------------|--|---------------------------------|--------------------------|-----------------|-----------------|
| 1 | 2 | 2 | 2 | 1 | 3 | 2 | 4 | 2.3 | 2 |
| 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 3.0 | 3 |
| 3 | 1 | 1 | 4 | 2 | 4 | 1 | 2 | 2.1 | 1 |
| 4 | 3 | 3 | 5 | 5 | 5 | 3 | 1 | 3.6 | 5 |
| 5 | 3 | 3 | 1 | 4 | 1 | 5 | 5 | 3.1 | 4 |

In comparison to the No-Build scenario, all of the future year alternatives result in increased delays and travel times. The level of service analyses indicate that the intersections adjacent to the railroad tracks on Main Street are the most impacted by the proposed traffic pattern changes. Converting streets from one-way operation reduces the capacity to move vehicles through the downtown area, increases travel delays, and could possibly result in traffic diverting around downtown. In addition, closing one of the four railroad crossings in the downtown area significantly disrupts existing traffic patterns in the area, impairs mobility, reduces accessibility, increases delays, and raises the likelihood that motorists will divert around downtown during peak travel periods.

Estimates of P.M. peak hour travel time indicate that as more of the east-west streets are converted to two-way operation, travel time through the study area will increase. This is due to the loss of capacity at the intersections adjacent on Main Street and the loss of a travel lane in each direction for carrying vehicles.

In terms of economic impact, analyses indicate that Alternative 3 and Alternative 4 would generate more retail traffic than the No-Build alternative while Alternative 1, Alternative 2, and Alternative 5 would generate slightly less retail traffic than the No-Build Alternative.

Recommendations

This report includes a relatively detailed evaluation of the implications of closing one of the existing at-grade railroad crossings and the conversion of one-way streets to two-way operation in the downtown area. However, in addition to the impacts measured in this report, there are a wide range of other impacts that must factor into any decision concerning changes to traffic circulation in the downtown study area. With that said, the

intent of this study is to quantify the impacts of the various alternatives under consideration in terms of traffic operations and economic impact and to compare the alternatives to one another based on those impacts.

The alternatives considered in this study result have varying impacts on traffic operations and the economic outlook in the downtown area. However, based on the results of the analyses in this study, Alternative 3 ranks the highest in comparison to all the other alternatives. If implemented, Alternative 3 would be expected to result in increased delay in the study area, but it is expected to have a positive impact on retail traffic in the downtown area and to have the lowest implementation cost of all the alternatives considered.

The improvements required to implement Alternative 3 are estimated to cost \$600,000. Alternative 3 requires the following improvements:

- Remove the traffic signal and railroad crossing devices at the intersection of Hill Street/Western Avenue,
- Upgrade 12 signalized intersections along Nash Street/Marigold Street and Hill Street/Western Avenue between George Street and Grace Street to accommodate two-way traffic,
- Upgrade the railroad protection devices (gates and flashers) at Nash Street/Marigold Street to accommodate two-way traffic,
- Remove the traffic signal at Hill Street and Washington Street,
- Reconstruct the intersection of George Street and Marigold Street to increase the turning radius for fire trucks turning right from George Street onto Marigold Street,
- Install pavement markings along Nash Street/Marigold Street and Hill Street/Western Avenue and upgrade pavement markings at signalized intersections from George Street to Grace Street in order to accommodate two-way traffic.

TABLE OF CONTENTS

| | |
|--|-----------|
| EXECUTIVE SUMMARY | I |
| 1.0 INTRODUCTION..... | 1 |
| 2.0 EXISTING CONDITIONS | 2 |
| STREETS AND TRAFFIC..... | 2 |
| CSX RAILROAD | 3 |
| 3.0 LAND USE, FUTURE YEAR (2025) TRIP GENERATION, AND DISTRIBUTION..... | 7 |
| LAND USE | 7 |
| TRIP GENERATION | 8 |
| TRIP DISTRIBUTION | 10 |
| 4.0 ALTERNATIVE ANALYSIS SCENARIOS | 12 |
| SCENARIO DESCRIPTIONS..... | 12 |
| ESTIMATED PEAK HOUR TRAFFIC VOLUMES | 13 |
| IMPACTS ON PARKING | 15 |
| 5.0 TRAFFIC ANALYSES | 16 |
| LEVEL OF SERVICE CRITERIA..... | 16 |
| LEVEL OF SERVICE RESULTS | 16 |
| CONCLUSIONS | 19 |
| 6.0 OTHER SYSTEM MEASURES..... | 35 |
| P.M. PEAK HOUR TRAVEL TIME | 35 |
| TRAFFIC QUEUES..... | 36 |
| TRAFFIC CIRCULATION IMPACTS | 37 |
| 7.0 ECONOMIC IMPACTS | 40 |
| ONE-WAY STREET CONVERSIONS | 40 |
| RAIL CROSSING CLOSURES..... | 40 |
| PEDESTRIAN SKETCH PLAN METHODOLOGY..... | 41 |
| OVERVIEW..... | 42 |
| CONCLUSIONS | 42 |
| 8.0 IMPLEMENTATION COSTS..... | 46 |
| COSTS BY ALTERNATIVE..... | 46 |
| CONCLUSIONS | 49 |
| 9.0 PUBLIC PARTICIPATION | 50 |
| 10.0 FINDINGS AND RECOMMENDATIONS..... | 51 |
| LEVEL OF SERVICE ANALYSIS RESULTS..... | 51 |
| OTHER SYSTEM MEASURES | 52 |
| ECONOMIC IMPACTS..... | 54 |
| IMPLEMENTATION COSTS..... | 54 |
| OVERALL ALTERNATIVE RANKING | 55 |
| RECOMMENDATIONS | 55 |

APPENDICES

| | |
|-------------|---|
| APPENDIX A: | CSX TRAIN INTERRUPTIONS |
| APPENDIX B: | EXISTING (2003) TURNING MOVEMENT COUNTS |
| APPENDIX C: | LAND USE DATA AND TRIP GENERATION |
| APPENDIX D: | SYNCHRO ANALYSIS OUTPUT |
| APPENDIX E: | PUBLIC MEETING NOTES |
| APPENDIX F: | IMPLEMENTATION |

LIST OF TABLES

| | | |
|----------|---|----|
| TABLE 1 | DETAILED LAND USE BY BLOCK | 7 |
| TABLE 2 | TRIP GENERATION SUMMARY BY BLOCK | 8 |
| TABLE 3 | TRIP DISTRIBUTION PERCENTAGES..... | 10 |
| TABLE 4 | INTERSECTION LEVEL OF SERVICE DESCRIPTIONS BASED ON AVERAGE DELAY | 16 |
| TABLE 5 | LEVEL OF SERVICE RESULTS SUMMARY..... | 17 |
| TABLE 6 | AVERAGE VEHICLE DELAYS..... | 19 |
| TABLE 7 | AVERAGE VEHICLE SPEEDS | 20 |
| TABLE 8 | ALTERNATIVES RANKED BY ESTIMATED P.M. PEAK TRAVEL TIMES | 35 |
| TABLE 9 | ALTERNATIVES RANKED BY FIRE STATION 1 P.M. PEAK HOUR TRAVEL TIMES..... | 36 |
| TABLE 10 | ESTIMATED AVERAGE P.M. PEAK HOUR TRAFFIC QUEUES AT MAIN STREET | 36 |
| TABLE 11 | ESTIMATED P.M. PEAK HOUR TRAVEL TIMES – SUNSET AVENUE/GRACE STREET..... | 38 |
| TABLE 12 | ESTIMATED P.M. PEAK HOUR TRAVEL TIMES – THOMAS STREET/CHURCH STREET | 39 |
| TABLE 13 | ESTIMATED P.M. PEAK HOUR TRAVEL TIMES – FIRE STATION 1 | 39 |
| TABLE 14 | PROJECTED RETAIL TRAFFIC AND SALES | 44 |
| TABLE 15 | PROJECTED CHANGE IN AVERAGE DAILY TRAFFIC BY ALTERNATIVE | 45 |
| TABLE 16 | RETAIL TRAFFIC IMPACT BY ALTERNATIVE..... | 45 |
| TABLE 17 | IMPLEMENTATION COSTS BY ALTERNATIVE..... | 46 |

LIST OF FIGURES

| | | |
|-----------|--|----|
| FIGURE 1 | STUDY AREA MAP..... | 4 |
| FIGURE 2 | EXISTING INTERSECTION GEOMETRICS AND A.M. PEAK HOUR TRAFFIC..... | 5 |
| FIGURE 3 | EXISTING INTERSECTION GEOMETRICS AND P.M. PEAK HOUR TRAFFIC..... | 6 |
| FIGURE 4 | DOWNTOWN BLOCKS | 9 |
| FIGURE 5 | A.M. PEAK HOUR AND P.M. PEAK HOUR TRIP DISTRIBUTION | 11 |
| FIGURE 6 | EXISTING A.M. PEAK HOUR LOS AND TURNING MOVEMENT VOLUMES | 21 |
| FIGURE 7 | EXISTING P.M. PEAK HOUR LOS AND TURNING MOVEMENT VOLUMES | 22 |
| FIGURE 8 | NO-BUILD (2025) A.M. PEAK HOUR LOS AND TURNING MOVEMENT VOLUMES..... | 23 |
| FIGURE 9 | NO-BUILD (2025) P.M. PEAK HOUR LOS AND TURNING MOVEMENT VOLUMES..... | 24 |
| FIGURE 10 | ALTERNATIVE 1 A.M. PEAK HOUR LOS AND TURNING MOVEMENT VOLUMES..... | 25 |
| FIGURE 11 | ALTERNATIVE 1 P.M. PEAK HOUR LOS AND TURNING MOVEMENT VOLUMES..... | 26 |
| FIGURE 12 | ALTERNATIVE 2 A.M. PEAK HOUR LOS AND TURNING MOVEMENT VOLUMES..... | 27 |
| FIGURE 13 | ALTERNATIVE 2 P.M. PEAK HOUR LOS AND TURNING MOVEMENT VOLUMES..... | 28 |
| FIGURE 14 | ALTERNATIVE 3 A.M. PEAK HOUR LOS AND TURNING MOVEMENT VOLUMES..... | 29 |
| FIGURE 15 | ALTERNATIVE 3 P.M. PEAK HOUR LOS AND TURNING MOVEMENT VOLUMES..... | 30 |
| FIGURE 16 | ALTERNATIVE 4 A.M. PEAK HOUR LOS AND TURNING MOVEMENT VOLUMES..... | 31 |
| FIGURE 17 | ALTERNATIVE 4 P.M. PEAK HOUR LOS AND TURNING MOVEMENT VOLUMES..... | 32 |
| FIGURE 18 | ALTERNATIVE 5 A.M. PEAK HOUR LOS AND TURNING MOVEMENT VOLUMES..... | 33 |
| FIGURE 19 | ALTERNATIVE 5 P.M. PEAK HOUR LOS AND TURNING MOVEMENT VOLUMES..... | 34 |
| FIGURE 20 | 2025 PROJECTED RETAIL SALES BY TRANSPORTATION ALTERNATIVE..... | 44 |

1.0 INTRODUCTION

The City of Rocky Mount has undertaken this study to assess the impact of altering traffic patterns in the downtown area. The changes to traffic patterns under consideration include converting one-way streets to two-way operation and closing a railroad crossing in the core downtown area. The study area includes the area designated as the “Downtown Smart Growth Area” as identified in the Comprehensive Plan for the City of Rocky Mount. This area is defined by the intersection of Raleigh Road and Grace Street in the southwest; extending north on Grace Street to the intersection of Grace Street and West Grand Avenue; east on West Grand Avenue to Atlantic Avenue; south on Atlantic Avenue and Arlington Street to the intersection of Arlington Street and South George Street; across the railway overpass west on Raleigh Road back to the intersection of Raleigh Road and Grace Street. All of the one-way streets in the downtown area were candidates for conversion to two-way operation while the rail crossings at Hill Street/Western Avenue and Nash Street/Marigold Street were considered for closure in this study. The objective of this study was to assess the impact of the changes on traffic operations, pedestrian mobility, parking, and the economic viability of the downtown businesses for five alternative scenarios. The horizon year is 2025.

Preliminary alternatives were developed and submitted for review. After incorporating feedback from stakeholders in the downtown area, five alternative scenarios were carried forward for analysis. The one-way street conversions and rail crossing closures were combined to formulate the following five alternative analysis scenarios:

- Alternative 1 – This scenario included all of the feasible street conversions, the conversion of Main Street between Hill Street and Marigold Street to two-way operation, the conversion of the one-way pair of Hill Street/Western Avenue and Nash Street/Marigold Street to two-way operation, and the closure of the rail crossing on Nash Street/Marigold Street.
- Alternative 2 – This scenario is identical to Alternative 1 with the following exceptions:
 - Washington Street and Rose Street remain one-way streets
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2.0 EXISTING CONDITIONS

This section describes the existing streets and land uses in the study area. The study area includes the area designated as the “Downtown Smart Growth Area” as identified in the Comprehensive Plan for the City of Rocky Mount. This area, shown in Figure 1, is defined by the intersection of Raleigh Road and Grace Street in the southwest; extending north on Grace Street to the intersection of Grace Street and West Grand Avenue; east on West Grand Avenue to Atlantic Avenue; south on Atlantic Avenue and Arlington Street to the intersection of Arlington Street and South George Street; across the railway overpass west on Raleigh Road back to the intersection of Raleigh Road and Grace Street. The majority of the land uses in the study area are retail, commercial, and government.

STREETS AND TRAFFIC

Average Annual Daily Traffic (AADT) data for the roads in the study area were obtained from the North Carolina Department of Transportation (NCDOT). The most recent AADT counts from the NCDOT are for 2001. Figure 2 and Figure 3 provide schematic diagrams of the roadways in the study area including the existing intersection geometrics and peak hour turning movement volumes.

Thomas Street and Sunset Avenue/Tarboro Street

- These streets form a one-way pair in the northern half of the study area running in the east-west direction and are designated as Business Route US 64. Both streets have three-lane cross-sections through the study area and have a posted speed limit of 25 miles per hour. The 2001 AADT on Thomas Street was between Church Street and Southwest Main Street was 4,700 vehicles per day (VPD). The 2000 AADT on Sunset Avenue at the CSX railroad crossing was 5,100 VPD.

Hill Street/Western Avenue and Nash Street/Marigold Street

- These streets form a one-way pair in the southern half of the study area running in the east-west direction. Both streets have two-lane to three-lane cross-sections through the study area and have a posted speed limit of 25 miles per hour (MPH). These streets provide access to residential areas east and west of the downtown area.

Main Street

- Main Street operates as a one-way pair of streets in the downtown area separated by railroad tracks and provides local access to the shops in the downtown area. Two travel lanes are provided in each direction with angled, on-street parking. Main Street intersects the east-west streets forming very closely spaced intersections at the railroad tracks.

Franklin Street and Church Street

- These streets form a one-way pair in the western section of the study area running in the north-south direction. Both streets have three-lane cross-sections through the study area and have a posted speed limit of 25 MPH and are designated as Business Route US 301.

Washington Street and Rose Street

- These streets form a local one-way pair between Tarboro Street and Thomas Street with a posted speed limit of 25 MPH. On-street parking is provided on these streets. South of Sunset Avenue, Washington Street is a two-way street with on-street parking provided.

Arlington Street/Atlantic Avenue

- This street marks the eastern boundary of the study area. The street has a four-lane cross-section with a posted speed limit of 25 and 35 MPH.

Trevathan Street

- This street is actually outside of the defined study area. The street is a one-way street with on-street parking provided.

Gay Street

- This street is a one-way street in the northwestern section of the study area providing local access to commercial land uses.

Howard Street

- This street is a north-south one-way street providing one-way access between Western Avenue and Sunset Avenue west of Southwest Main Street. The land uses along this street are primarily commercial and retail.

Falls Road

- This street is a north-south one-way street providing one-way access between Goldleaf Street and Thomas Street in the northern section of the study area. This street provides access from areas north of the downtown area.

Peak hour intersection volumes were provided by the City of Rocky Mount. The data, which was collected during 2003, provided A.M. and P.M. peak hour intersection traffic volumes in fifteen-minute increments. The traffic volumes were utilized to assess existing peak hour level of service and served as the basis for estimating future year turning movements. The peak hour traffic volume data, as well as the AADT data for the study area, is provided in Appendix B.

The existing intersection turning movement data indicates that the majority of the traffic approaching the railroad crossings from the east and west is traveling through downtown without diverting onto Southwest Main Street or Southeast Main Street. The existing A.M. peak hour and P.M. peak hour traffic volumes are shown in Figure 2 and Figure 3.

CSX RAILROAD

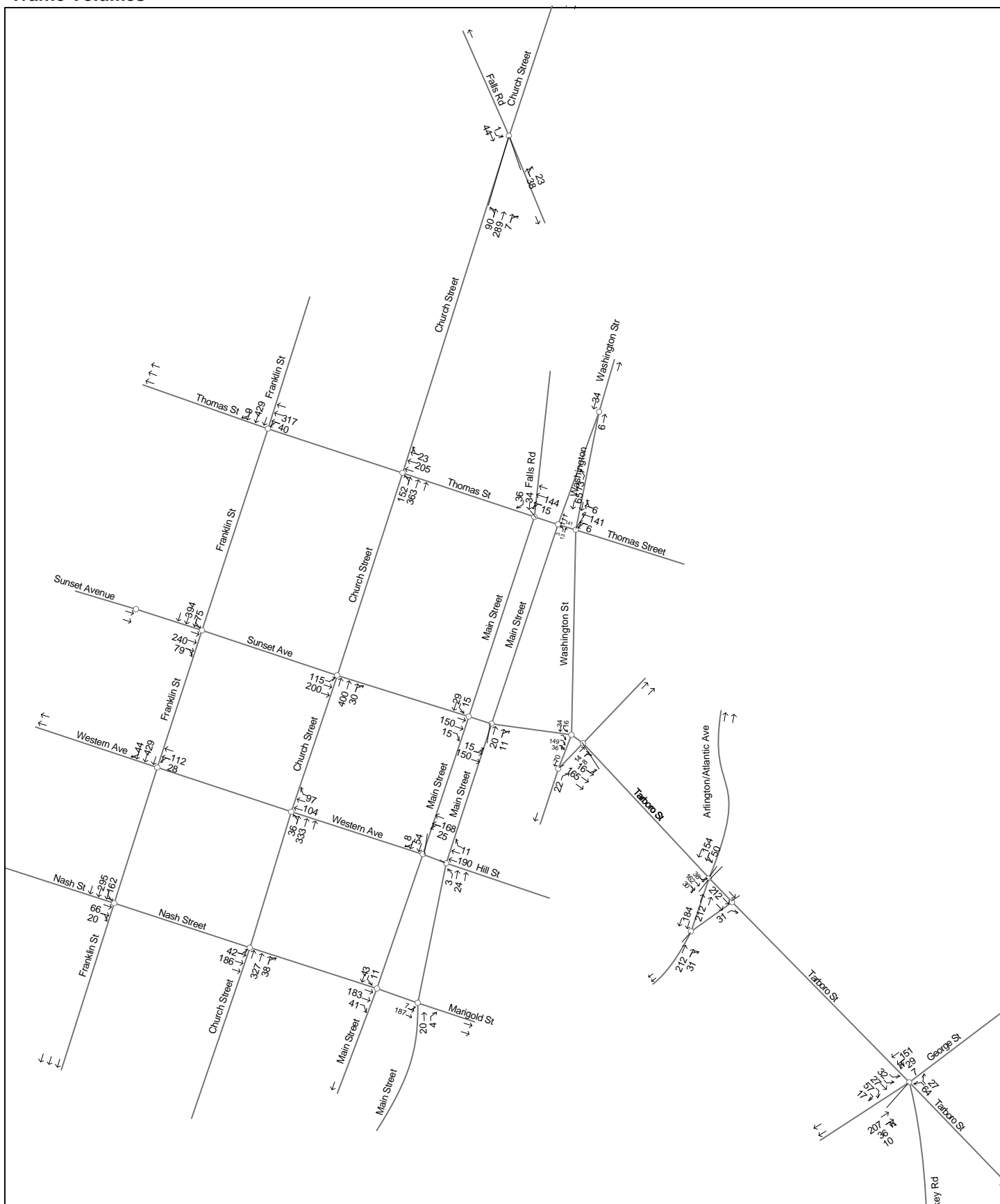
A CSX railroad line is oriented north-south passing through the downtown area. The at-grade crossings are controlled by traffic signals, gates, and flashers. According to signal pre-emption data, the average duration of the closures of the railroad crossings vary from an average minimum of approximately 1:37 to an average maximum of approximately 2:36. During the period of March 1, 2005, through March 7, 2005, the railroad crossings at Main Street were closed for trains to pass through nearly 300 times, an average of approximately 40 times each day. The overall average duration of the closures was 2:09. The railroad crossings are indicated in Figure 1 and the rail crossing data is provided in Appendix A.



Over 40 trains pass through downtown each day.

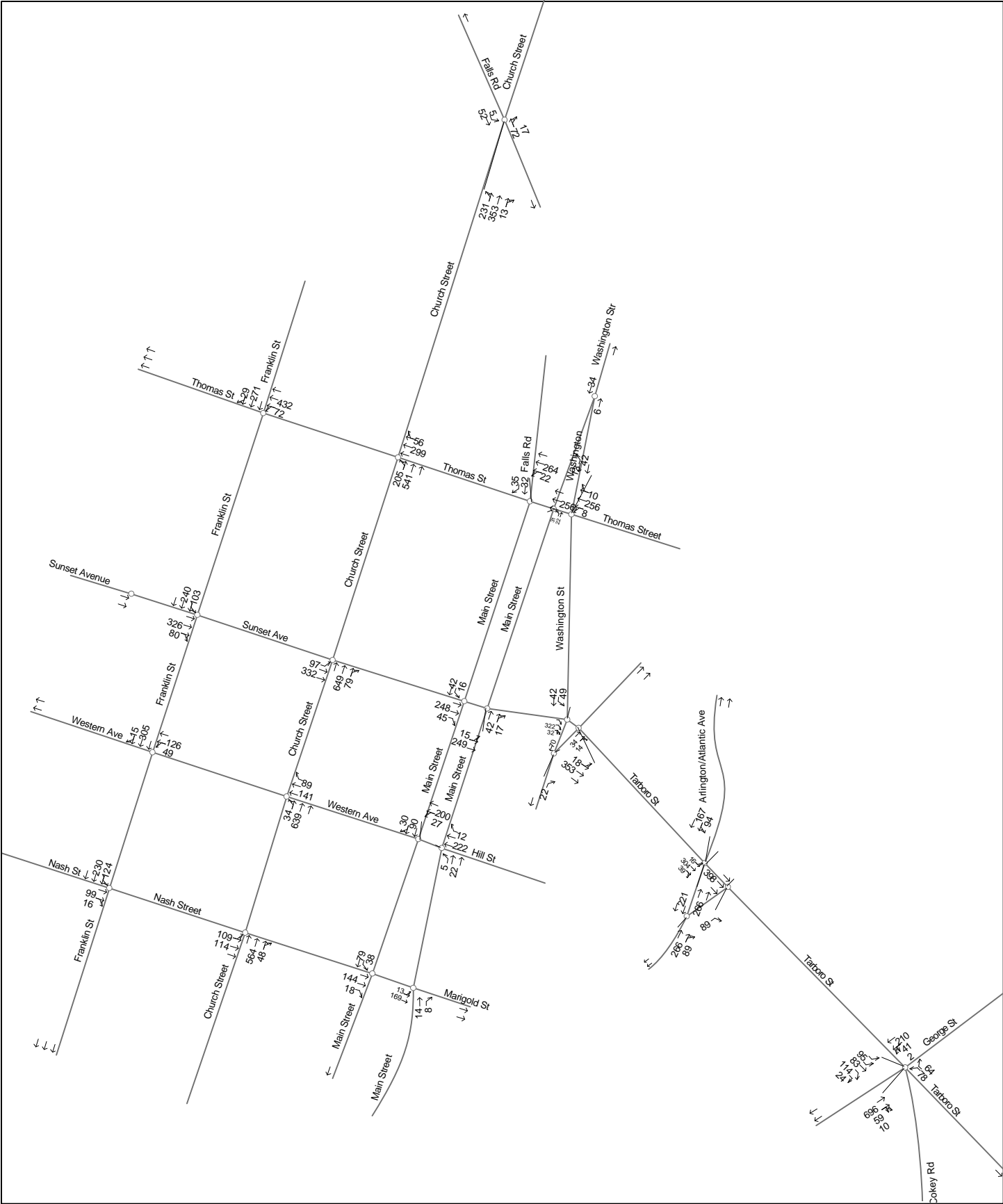
Existing A.M. Peak Hour Traffic Volumes

Figure 2



Existing P.M. Peak Hour
Traffic Volumes

Figure 3



3.0 LAND USE, FUTURE YEAR (2025) TRIP GENERATION, AND DISTRIBUTION

LAND USE

The proposed land use is a vital component of the analyses of future year traffic conditions as well as the analysis of the economic impact in the downtown area. The City provided projected land use data for each block in the downtown area. The following land use types are proposed in the downtown area:

- Residential
- Industrial
- Transportation
- Commercial
- Public
- Office
- Parks
- Multi-use

Only the blocks indicated in Figure 3 were included for trip generation in this study. The following assumptions were made concerning residential, industrial, and multi-use land uses.

- Two-thirds of the square footage designated as multi-use was assumed to be retail, while the remaining one-third square footage was assumed to be office space.
- Residential units were assumed to be 1,000 square feet in size.
- Commercial development was designated as specialty retail for the purposes of trip generation.
- An occupancy rate of 85% was assumed for the residential, commercial, and office space.

Table 1 Detailed Land Use By Block

| Block Number | Residential Units ¹ | Commercial ¹ (square feet) | Public (square feet) | Office ¹ (square feet) |
|------------------------------|--------------------------------|---------------------------------------|----------------------|-----------------------------------|
| 101 | 27 | 4,900 | 55,642 | 6,877 |
| 103 | 33 | 15,259 | 54,192 | 30,518 |
| 104 | 16 | 10,042 | 0 | 20,084 |
| 105 | 33 | 22,290 | 0 | 29,398 |
| 106 | 33 | 10,892 | 20,271 | 21,784 |
| 107 | 38 | 21,069 | 2,264 | 32,100 |
| 108 | 55 | 21,817 | 18,634 | 43,633 |
| 109 | 26 | 10,459 | 0 | 20,917 |
| 111 | 0 | 14,292 | 0 | 28,585 |
| 110 | 0 | 0 | 0 | 0 |
| 112 | 0 | 43,406 | 0 | 7,235 |
| 113 | 0 | 2,742 | 0 | 5,483 |
| 114, 115, & 116 ² | 59 | 36,359 | 16,700 | 0 |
| 313 | 0 | 0 | 144,552 | 0 |
| Totals | 320 | 213,527 | 312,255 | 246,614 |

1 – Assumes 85% occupancy.

2 – Douglas Block.

TRIP GENERATION

A.M. peak hour and P.M. peak hour vehicle trips were generated only for blocks within the core downtown area. It was assumed that trips generated by the proposed downtown businesses and other land uses would be in addition to the existing business related trips. Table 3 includes a summary of the trip generation and detailed land use data for each block is included in Appendix C. Most of the trip generation rates utilized in this study were derived from the ITE Trip Generation Manual 7th Edition.

In cases where applicable trip generation rates are not included in the ITE Trip Generation Manual, data were obtained from similar facilities in other jurisdictions to estimate trip generation. For example, the City of Rocky Mount proposes to build an expanded Children's Museum in the downtown area. Trip rates for children's museums are not included in the ITE Trip Generation Manual; therefore data obtained from websites and staff members of similar facilities were used to estimate daily trips. In order to estimate peak hour trips, trip generation rate information from the ITE Trip Generation Manual for libraries was used to estimate the ratio of peak hour trips to daily trips. That ratio was then utilized to estimate the peak hour trips for children's museums. Table 3 summarizes the trip generation for the blocks of interest in the downtown area.



Buildings on Main Street are slated for renovations.

Table 2 Trip Generation Summary by Block

| Block Number | AM Peak Hour Trips | PM Peak Hour Trips |
|-----------------|--------------------|--------------------|
| 101 | 97 | 78 |
| 103 | 207 | 143 |
| 104 | 109 | 66 |
| 105 | 213 | 124 |
| 106 | 132 | 131 |
| 107 | 215 | 134 |
| 108 | 253 | 202 |
| 109 | 118 | 75 |
| 111 | 142 | 81 |
| 110 | 0 | 0 |
| 112 | 308 | 129 |
| 113 | 27 | 15 |
| 114, 115, & 116 | 278 | 135 |
| 313 | 49 | 326 |
| Totals | 2148 | 1639 |

Details of the land use and related trip generation are included in Appendix C.

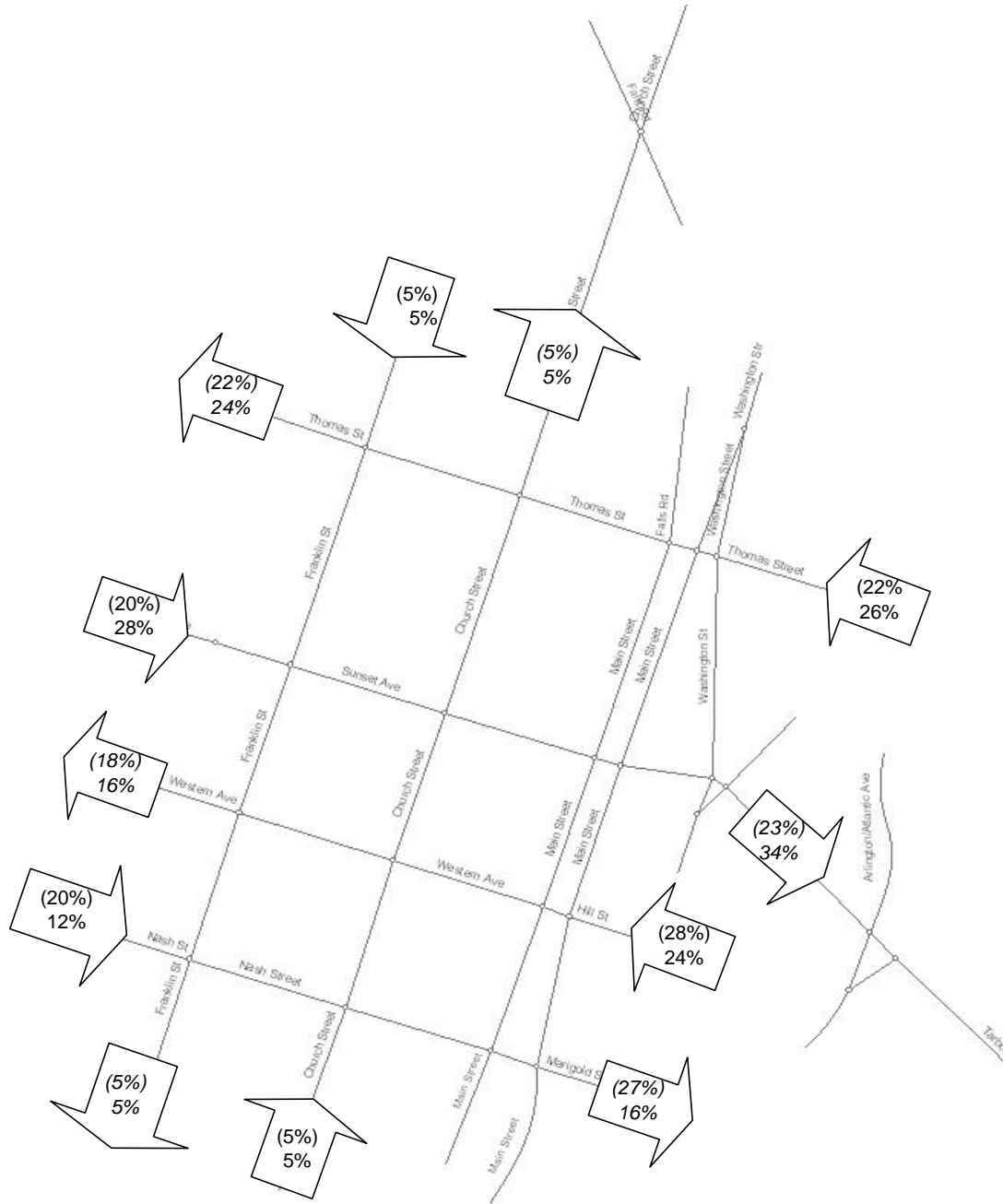
TRIP DISTRIBUTION

In order to assess the economic impact of each alternative, phone surveys were conducted with the business owners in the downtown area. Based on those survey results, it was estimated that 50 percent of the existing downtown business trips are generated in Nash County and 50 percent is generated in Edgecombe County. Therefore, as a beginning point in distributing the traffic generated by the proposed land uses, it was assumed that 50 percent of the traffic would be attributed to Nash County and 50 percent of the traffic would be attributed to Edgecombe County. The trips were then distributed across the streets in the downtown area. The overall trip distribution is summarized in Table 3 and shown in Figure 5.

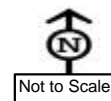
Table 3 Trip Distribution Percentages

| Approach | A.M. Peak Hour | | P.M. Peak Hour | |
|-----------------------------------|----------------|-----|----------------|-----|
| | In | Out | In | Out |
| From the North on Franklin Street | 5% | - | 5% | - |
| From the South on Church Street | 5% | - | 5% | - |
| From the West on Sunset Avenue | 20% | - | 28% | - |
| From the West on Nash Street | 20% | - | 12% | - |
| From the East on Thomas Street | 22% | - | 26% | - |
| From the East on Hill Street | 28% | - | 24% | - |
| To the North on Church Street | - | 5% | - | 5% |
| To the South on Franklin Street | - | 5% | - | 5% |
| To the West on Thomas Street | - | 22% | - | 24% |
| To the West on Western Avenue | - | 18% | - | 16% |
| To the East on Tarboro Street | - | 23% | - | 34% |
| To the East on Marigold Street | - | 27% | - | 16% |

The trips generated by the land uses within the blocks identified in Table 2 were distributed through the network based on the percentages identified in Table 3 and the existing street operations. The resulting intersection turning movement volumes were used to establish the peak hour turning movement volumes for the No-Build alternative. The No-Build alternative turning movement volumes were then redistributed for each alternative based on changes to the streets included in each alternative.



| | IN | OUT |
|----|-------|-------|
| AM | (12%) | (12%) |
| PM | 12% | 12% |



Martin
Alexiou
Bryson

Figure 5
A.M. Peak Hour and P.M. Peak Hour
Trip Distribution

Rocky Mount Downtown
Circulation Study

4.0 ALTERNATIVE ANALYSIS SCENARIOS

Five alternative analysis scenarios, plus a No-Build scenario, were developed to analyze proposed future year conditions. The Future No-Build analysis scenario includes the existing traffic as described in Section 2.0 of this report, plus 2.0% growth between the existing year for which base traffic data were provided (2003) and the build years (2025), as well as traffic from the proposed land uses in the downtown area, as discussed in Section 3.0 of this report. The following sections describe the alternative scenarios.

SCENARIO DESCRIPTIONS

In all, six scenarios were developed to evaluate future year conditions. The No-Build alternative includes the projected traffic volumes expected to occur in 2025, but does not consider any changes to the existing street network in the downtown area. As part of developing the other five alternative analysis scenarios, it was determined that a number of existing one-way streets could be easily converted to two-way operation and included in most of the future year analysis scenarios. The following streets were considered feasible two-way conversions due to the relatively insignificant impacts and low cost of implementation:

- Trevathan Street
- Gay Street
- Howard Street
- Washington Street
- Rose Street
- Falls Road

In addition to the feasible one-way street conversions, the following one-way streets were analyzed as two-way streets in the alternative scenarios:

- Thomas Street
- Sunset Avenue/Tarboro Street
- Hill Street/Western Avenue
- Nash Street/Marigold Street
- One block of Southeast Main Street between Marigold Street and Hill Street

The following rail crossings were also considered for closure as part of the alternative scenarios:

- Hill Street/Western Avenue
- Nash Street/Marigold Street

Preliminary alternatives were developed and submitted for review. After incorporating feedback from stakeholders in the downtown area, five alternative scenarios were carried forward for analysis. The one-way street conversions and rail crossing closures identified above were combined to formulate the following five alternative analysis scenarios:

- No-Build – This alternative included the estimated peak hour traffic volumes for year 2025, including new trips for the proposed land uses in the downtown core, but does not include any changes to the existing street network.

- Alternative 1 – This alternative included all of the feasible street conversions, the conversion of Main Street between Hill Street and Marigold Street to two-way operation, the conversion of the one-way pair of Hill Street/Western Avenue and Nash Street/Marigold Street to two-way operation, and the closure of the rail crossing on Nash Street/Marigold Street.
- Alternative 2 – This alternative is identical to Alternative 1 with the following exceptions:
 - Washington Street and Rose Street remain one-way streets
 - Thomas Street and Sunset Avenue/Tarboro Street are converted to two-way operation.
- Alternative 3 – This alternative included all of the feasible street conversions, the conversion of the one-way pair of Hill Street/Western Avenue and Nash Street/Marigold Street to two-way operation, and the closure of the rail crossing on Hill Street/Western Avenue.
- Alternative 4 – This alternative is identical to Alternative 3 with the following exceptions:
 - Washington Street and Rose Street remain one-way streets
 - Thomas Street and Sunset Avenue/Tarboro Street are converted to two-way operation.
- Alternative 5 – This alternative included most of the feasible one-way street conversions plus the conversion of all of the major streets in the downtown area (Thomas Street, Sunset Avenue/Tarboro Street, Hill Street/Western Avenue, Nash Street/Marigold Street, Franklin Street, and Church Street) to two-way operation. However, all railroad crossings in the downtown area remain open to vehicular crossing traffic in this scenario and Washington Street and Rose Street remain as one-way streets.

ESTIMATED PEAK HOUR TRAFFIC VOLUMES

In order to assess the impacts of the alternatives, it was necessary to redistribute the future year traffic volumes included in the No-Build scenario taking into account the changes to the street network in each alternative. The assumptions that were made in order to develop the peak hour traffic volumes for each alternative are discussed below.

- No-Build – Peak hour traffic volumes for this alternative were estimated based on growth of existing traffic at a rate of two percent per year and the added trips generated by the proposed land use changes in the downtown core. The trips generated by the new land uses were distributed throughout the downtown street network by the percentages indicated in Table 3. The A.M. peak hour and P.M. peak hour traffic volumes for this alternative are shown in Figures 8 and 9.
- Alternative 1 – It was assumed that 90% of the traffic traveling on Hill Street/Western Avenue and Nash Street/Marigold Street in the No-Build alternative would travel on Hill Street/Western Avenue and 10% would travel on Nash Street/Marigold Street. As part of this alternative, the rail crossing on Nash Street/Marigold Street would be closed; therefore all of the traffic crossing the railroad tracks in the No-Build alternative on this street was rerouted to cross the railroad tracks on Hill Street/Western Avenue. Traffic patterns were also adjusted to reflect the proposed conversion of Main Street to two-way operation.

Some of the traffic patterns on Thomas Street and Sunset Avenue were also adjusted to reflect the proposed conversion of Washington Street, Rose Street, and Falls Road to two-way operation. The A.M. peak hour and P.M. peak hour traffic volumes for this alternative are shown in Figures 10 and 11.

- Alternative 2 – The assumptions used to estimate traffic on Hill Street/Western Avenue and Nash Street/Marigold Street in this alternative were the same as in Alternative 1.

It was assumed that 70% of the traffic traveling on Sunset Avenue and Thomas Street would travel on Sunset Avenue and the remaining 30% would travel on Thomas Street. It was further assumed that Washington Street and Rose Street would remain under one-way operation for this alternative. If Washington Street and Rose Street were converted to two-way operation for this alternative, the resulting traffic operations at the intersection of Tarboro Street at Washington Street and Rose Street (Five Points) and at the intersection of Main Street and Thomas Street would become more complex thus resulting in severely congested peak hour traffic conditions. The A.M. peak hour and P.M. peak hour traffic volumes for this alternative are shown in Figure 12 and 13.

- Alternative 3 – It was assumed that 10% of the traffic traveling on Hill Street/Western Avenue and Nash Street/Marigold Street in the No-Build alternative would travel on Hill Street/Western Avenue and 90% would travel on Nash Street/Marigold Street. As part of this alternative, the rail crossing on Hill Street/Western Avenue would be closed; therefore all of the traffic crossing the railroad tracks on this street in the No-Build alternative was rerouted to cross the railroad tracks on Nash Street/Marigold Street. It was also assumed that no blocks of Main Street or Main Street would be converted to two-way operation.

Some of the traffic patterns on Thomas Street and Sunset Avenue were adjusted to reflect the proposed conversion of Washington Street, Rose Street, and Falls Road to two-way operation. The A.M. peak hour and P.M. peak hour traffic volumes for this alternative are shown in Figure 14 and 15.

- Alternative 4 – The assumptions used to estimate traffic on Hill Street/Western Avenue and Nash Street/Marigold Street in this alternative were the same as in Alternative 3.

The assumptions used to estimate traffic on Thomas Street and Sunset Avenue for this alternative are the same as the assumptions used to estimate traffic on these streets in Alternative 2. The A.M. peak hour and P.M. peak hour traffic volumes for this alternative are shown in Figure 16 and 17.

- Alternative 5 – It was assumed that 70% of the traffic traveling on Hill Street/Western Avenue and Nash Street/Marigold Street in the No-Build alternative would travel on Hill Street/Western Avenue and 30% would travel on Nash Street/Marigold Street.

It was assumed that 70% of the traffic traveling on Sunset Avenue and Thomas Street would travel on Sunset Avenue and the remaining 30% would travel on Thomas Street.

It was assumed that 70% of the traffic traveling on Church Street and Franklin Street would travel on Church Street and the remaining 30% would travel on Franklin Street. The A.M. peak hour and P.M. peak hour traffic volumes for this alternative are shown in Figure 18 and 19.

IMPACTS ON PARKING

Availability of convenient parking is a vital component to economic development in the downtown area. On-street parking is currently provided in the downtown area in the form of angled parking on both sides of Main Street. Stakeholders expressed a strong desire to maintain the current level of on-street parking in the downtown area. Stakeholders also wanted to investigate opportunities for adding more parking downtown. However, it is anticipated that converting blocks of Main Street to two-way operation would result in a moderate loss of on-street parking, if the parking were designed to current city guidelines. According to the city of Rocky Mount design guidelines the minimum width necessary to provide 60-degree on-street parking on one side of a two-way street and parallel parking on the other side of the street is approximately 53.9 feet. Main Street is approximately 49 feet wide between Hill Street and Marigold Street. If this block of Main Street were converted to two-way traffic and the minimum dimensions were utilized for 60-degree angled parking, the parallel parking on Main Street would be removed.



Angled parking is provided on Main Street.

5.0 TRAFFIC ANALYSES

LEVEL OF SERVICE CRITERIA

Peak hour level of service (LOS) measures the adequacy of the intersection geometrics and traffic controls of a particular intersection or approach for the given turning movement volumes. Levels of service range from A through F, based on the average control delay experienced by vehicles traveling through the intersection during the peak hour. Control delay represents the portion of total delay attributed to traffic control devices (e.g., signals or stop signs). The engineering profession generally accepts LOS D as an acceptable operating condition for signalized intersections in urban areas and LOS C for rural areas.

At unsignalized intersections, a LOS E is generally considered acceptable only if the side street encounters delay. Nevertheless, side streets typically function at LOS F during peak traffic periods, because the traffic volumes often do not warrant a traffic signal to assist side street traffic. Table 5 provides a general description of the various levels of service categories and delay ranges.

Table 4 Intersection Level of Service Descriptions Based on Average Delay

| Level of Service | Description | Signalized Intersection | Unsignalized Intersection |
|------------------|-------------------------|-------------------------|---------------------------|
| A | Little or no delay | ≤ 10 sec. | ≤ 10 sec. |
| B | Short traffic delay | 10-20 sec. | 10-15 sec. |
| C | Average traffic delay | 20-35 sec. | 15-25 sec. |
| D | Long traffic delay | 35-55 sec. | 25-35 sec. |
| E | Very long traffic delay | 55-80 sec. | 35-50 sec. |
| F | Unacceptable delay | > 80 sec. | > 50 sec. |

LEVEL OF SERVICE RESULTS

Intersection levels of service analyses were performed for the typical weekday A.M. and P.M. peak hours using *Synchro/SimTraffic Professional Version 6*. The analyses were performed for existing conditions, future year (2025) no-build conditions, and for the future year (2025) alternatives described in Section 4 of this report. The level of service results are summarized in Table 6 and detailed *Synchro* output is available in Appendix D. The analyses were performed for each alternative with the following assumptions:

- Left-turn lanes would be provided where possible when streets are converted from one-way operation to two-way operation.
- Traffic signal phasing was assumed to be as simple as possible. For example, although left-turn conflict is introduced at the intersections on Church Street and Franklin Street as a result of converting streets to two-way operation, simple two-phase operation was utilized for those intersections in all alternatives.

Table 5 Level of Service Results Summary

| Alternative | Intersection Operating at Unacceptable LOS (LOS E or worse) |
|---------------------|--|
| Existing Conditions | <ul style="list-style-type: none">• None |
| No-Build Conditions | <ul style="list-style-type: none">• None |
| Alternative 1 | <ul style="list-style-type: none">• Hill Street/Western Avenue at Main Street /Main Street |
| Alternative 2 | <ul style="list-style-type: none">• Sunset Avenue/Tarboro Street at Main Street• Hill Street/Western Avenue at Main Street |
| Alternative 3 | <ul style="list-style-type: none">• Nash Street/Marigold Street at Main Street |
| Alternative 4 | <ul style="list-style-type: none">• Sunset Avenue/Tarboro Street at Main Street• Nash Street/Marigold Street at Main Street |
| Alternative 5 | <ul style="list-style-type: none">• Sunset Avenue at Church Street• Sunset Avenue/Tarboro Street at Main Street |

Peak hour traffic volumes and levels of service for each alternative are shown in Figures 6 through 19.

The level of service results indicate that the intersections adjacent to the railroad tracks (Main Street) are the most affected by the changes in traffic associated with the various alternatives. This is due to the geometry of the intersections that will result once the streets crossing the railroad are converted to two-way operation. Because of the location of the railroad crossings, the intersections adjacent to the railroad tracks are extremely wide. The location of the railroad tracks in close proximity to Main Street creates two very closely spaced intersections on each side of the railroad tracks that operate as a single intersection. Fortunately, with the east-west streets being one-way, it is possible to provide an acceptable level of service. However, should the east-west streets be converted to two-way operation, the signal phasing would become much more complex. With such a wide intersection and the close proximity of the railroad tracks, it is not feasible to allow permitted left-turn movements. Therefore, each approach to the intersection requires a protected phase within the traffic signal cycle. This increases the signal cycle length and increased delays for each approach to the intersection. This effect is apparent in the level of service results for Alternative 1 through 5. The following sections discuss the analyses results for each alternative.

Existing Conditions

The analysis results for existing conditions indicate that, with the exception of delays caused by trains passing through downtown, the downtown street network has excess capacity. Currently all of the intersections analyzed in this study are operating at an acceptable level of service.

No-Build Conditions

The analysis results for No-Build conditions indicated that, with the exception of delays expected to occur due to trains passing through downtown, the downtown street network has excess capacity. All of the intersections analyzed are expected to operate at an acceptable level of service.

Alternative 1

The analysis results for Alternative 1 indicate that the proposed changes to traffic patterns will negatively impact the intersection of Hill Street/Western Avenue with Main Street. As explained above, this is due the complexity of traffic operations required at this intersection if Hill Street/Western Avenue is converted to two-way operation.



The railroad tracks through downtown will contribute to the complexity of signal phasing once the east-west streets are converted to two-way operation.

Alternative 2

The analysis results for Alternative 2 indicate that the proposed changes to traffic operations will negatively impact the intersection of Hill Street/Western Avenue with Main Street. Again this is due the complexity of traffic operations required at this intersection if Hill Street/Western Avenue is converted to two-way operation.

The analysis results for Alternative 2 also indicate that the proposed changes to traffic operations will negatively impact the intersection of Sunset Avenue/Tarboro Street at Main Street. Again this is due the complexity of traffic operations required at this intersection if Sunset Avenue/Tarboro Street is converted to two-way operation.

Alternative 3

The analysis results for Alternative 3 indicate that the proposed changes to traffic operations will negatively impact the intersection of Nash Street/Marigold Street at Main Street. Again this is due the complexity of traffic operations required at this intersection if Nash Street/Marigold Street is converted to two-way operation. In addition, the intersection of Marigold Street and Main Street is currently unsignalized. It is assumed that if this alternative is implemented then the intersection will be signalized and operated with the same controller as the intersection of Nash Street and Main Street.

Alternative 4

The analysis results for Alternative 4 indicate that the proposed changes to traffic operations will negatively impact the intersection of Nash Street/Marigold Street at Main Street. Again this is due the complexity of traffic operations required at this intersection if Nash Street/Marigold Street is converted to two-way operation. In addition, the intersection of Marigold Street and Main Street is currently unsignalized. It is again assumed that if this alternative is implemented then the intersection will be signalized and operated with the same controller as the intersection of Nash Street and Main Street.

The analysis results for Alternative 4 also indicate that the proposed changes to traffic operations will negatively impact the intersection of Sunset Avenue/Tarboro Street at Main Street. Again this is due the complexity of traffic operations required at this intersection if Sunset Avenue/Tarboro Street is converted to two-way operation.

Alternative 5

The analysis results for Alternative 5 indicate that the proposed changes to traffic operations will negatively impact the intersection of Sunset Avenue/Tarboro Street at

Main Street. Again this is due the complexity of traffic operations required at this intersection if Sunset Avenue/Tarboro Street is converted to two-way operation.

The analysis results for Alternative 5 also indicate that the proposed changes to traffic operations will negatively impact the intersection of Sunset Avenue at Church Street. One of the assumptions of this alternative is that Sunset Avenue will carry 70% of the east-west traffic projected to travel on Sunset Avenue and Thomas Street. It was also assumed that Church Street would carry 70% of the north-south traffic projected to travel on Church Street and Franklin Street. Converting these streets to two-way operation also introduces conflicts for left-turning vehicles at this intersection. The combined effect of increased traffic and decreased intersection capacity results in an unacceptable level of service at this intersection.

The intersection of Marigold Street and Main Street is currently unsignalized. It is again assumed that if this alternative is implemented, then the intersection will be signalized and operated with the same controller as the intersection of Nash Street and Main Street.

CONCLUSIONS

In comparison to the No-Build alternative, all of the alternatives under consideration result in increased travel delays for vehicles traveling through downtown on the east-west streets, however the impact of some alternatives are greater than others. Table 6 summarizes the delay for vehicles traveling through downtown for each alternative. This measure is useful to compare the alternatives one against the other. The alternatives are ranked in order of average vehicle delay from lowest average vehicle delay to highest average vehicle delay.

Table 6 Average Vehicle Delays

| Alternative | Network Vehicle Delay (sec/veh) [1] | | | | Average Rank | Overall Rank |
|---------------------|-------------------------------------|------|-----------|------|--------------|--------------|
| | A.M. Peak | Rank | P.M. Peak | Rank | | |
| No-Build Conditions | 00:11 | - | 00:12 | - | - | - |
| Alternative 1 | 00:17 | 1 | 00:19 | 2 | 1.5 | 2 |
| Alternative 2 | 00:24 | 5 | 00:26 | 3 | 4 | 3 |
| Alternative 3 | 00:17 | 1 | 00:14 | 1 | 1 | 1 |
| Alternative 4 | 00:20 | 4 | 00:30 | 4 | 4 | 3 |
| Alternative 5 | 00:19 | 3 | 00:42 | 5 | 4 | 3 |

Note: Alternatives are ranked 1 through 5, lowest average delay to highest average delay.

[1] Summarizes average delay for all vehicles in the study area.

In addition to comparing network system delay across the alternative, network average speed is also a useful measure to compare the alternatives. Table 7 summarizes the average vehicle travel speeds on the roads in the study area for each alternative. The alternatives are also ranked in order of average travel speed from highest average speed to lowest average speed.

Table 7 Average Vehicle Speeds

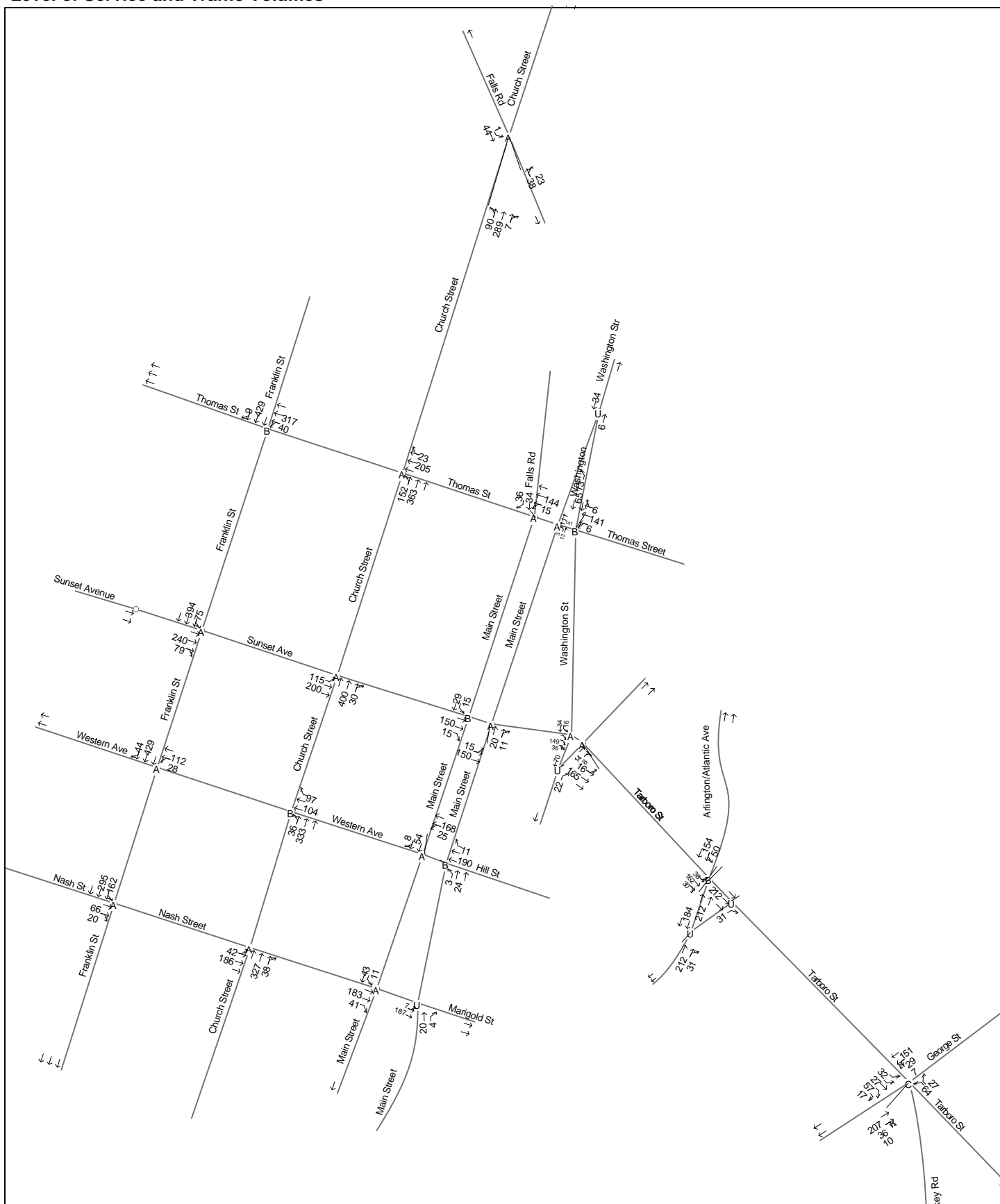
| Alternative | Network Vehicle Delay (mph) [1] | | | | Average Rank | Overall Rank |
|---------------------|---------------------------------|------|-----------|------|--------------|--------------|
| | A.M. Peak | Rank | P.M. Peak | Rank | | |
| No-Build Conditions | 14 | - | 13 | - | - | - |
| Alternative 1 | 11 | 1 | 10 | 2 | 1.5 | 2 |
| Alternative 2 | 9 | 5 | 9 | 3 | 4 | 3 |
| Alternative 3 | 11 | 1 | 12 | 1 | 1 | 1 |
| Alternative 4 | 10 | 4 | 8 | 4 | 4 | 3 |
| Alternative 5 | 11 | 1 | 6 | 5 | 3 | 3 |

Note: Alternatives are ranked 1 through 5, highest average speed to lowest average speed.

[1] Summarizes average speed for all vehicles in the study area.

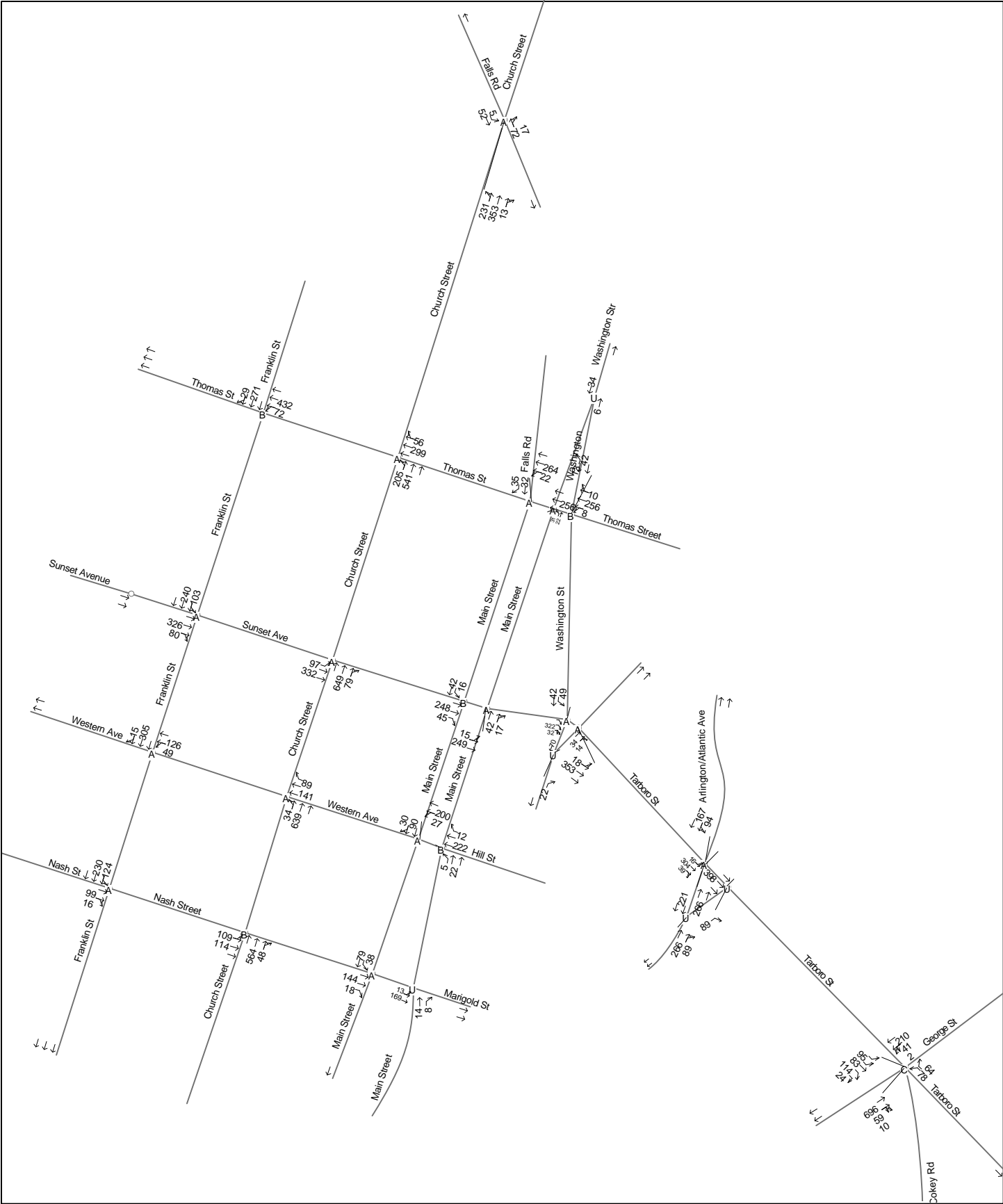
Existing A.M. Peak Hour Level of Service and Traffic Volumes

Figure 6



Existing P.M. Peak Hour
Level of Service and Traffic Volumes

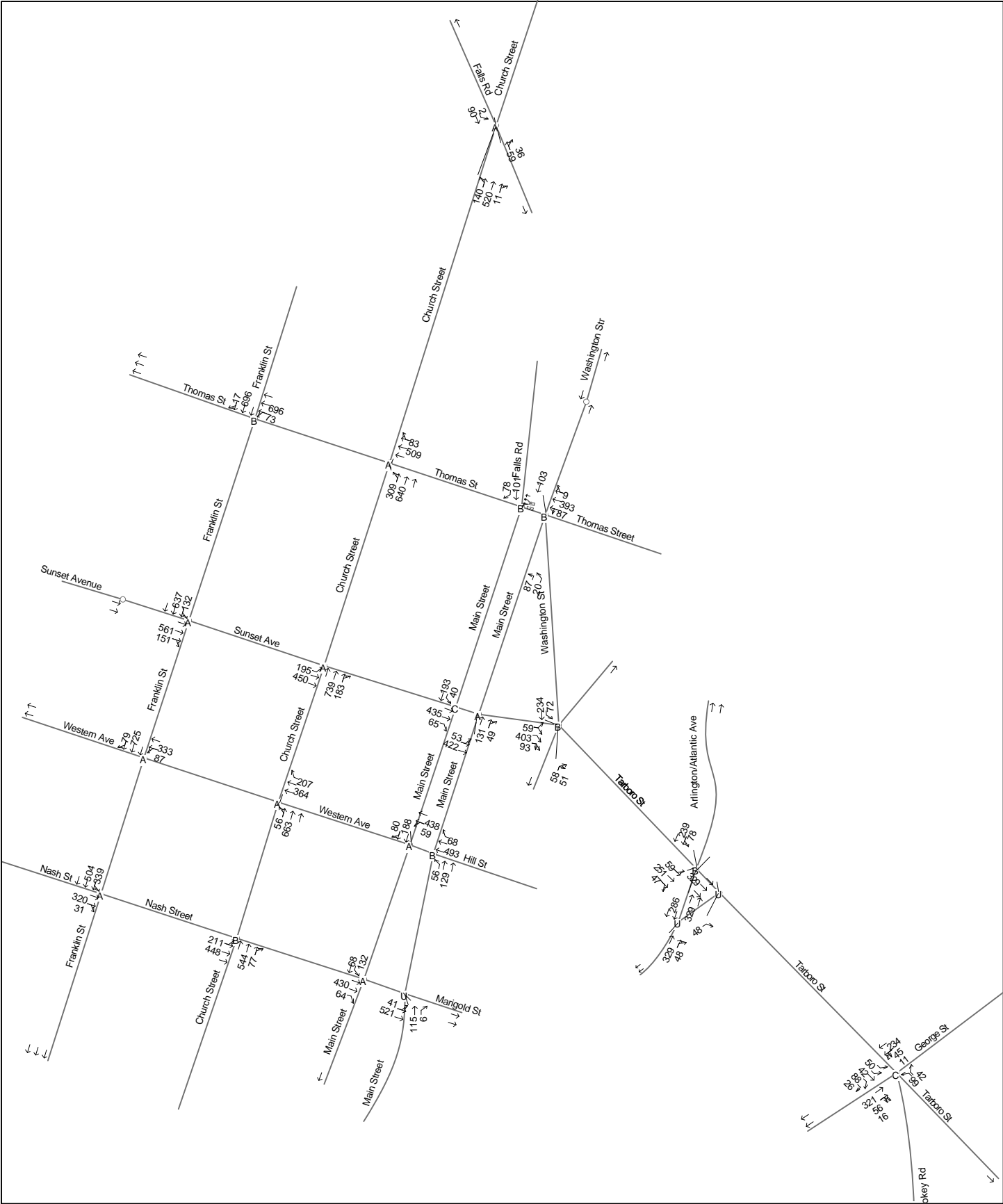
Figure 7



Rocky Mount Downtown Circulation Study

No-Build A.M. Peak Hour
Level of Service and Traffic Volumes

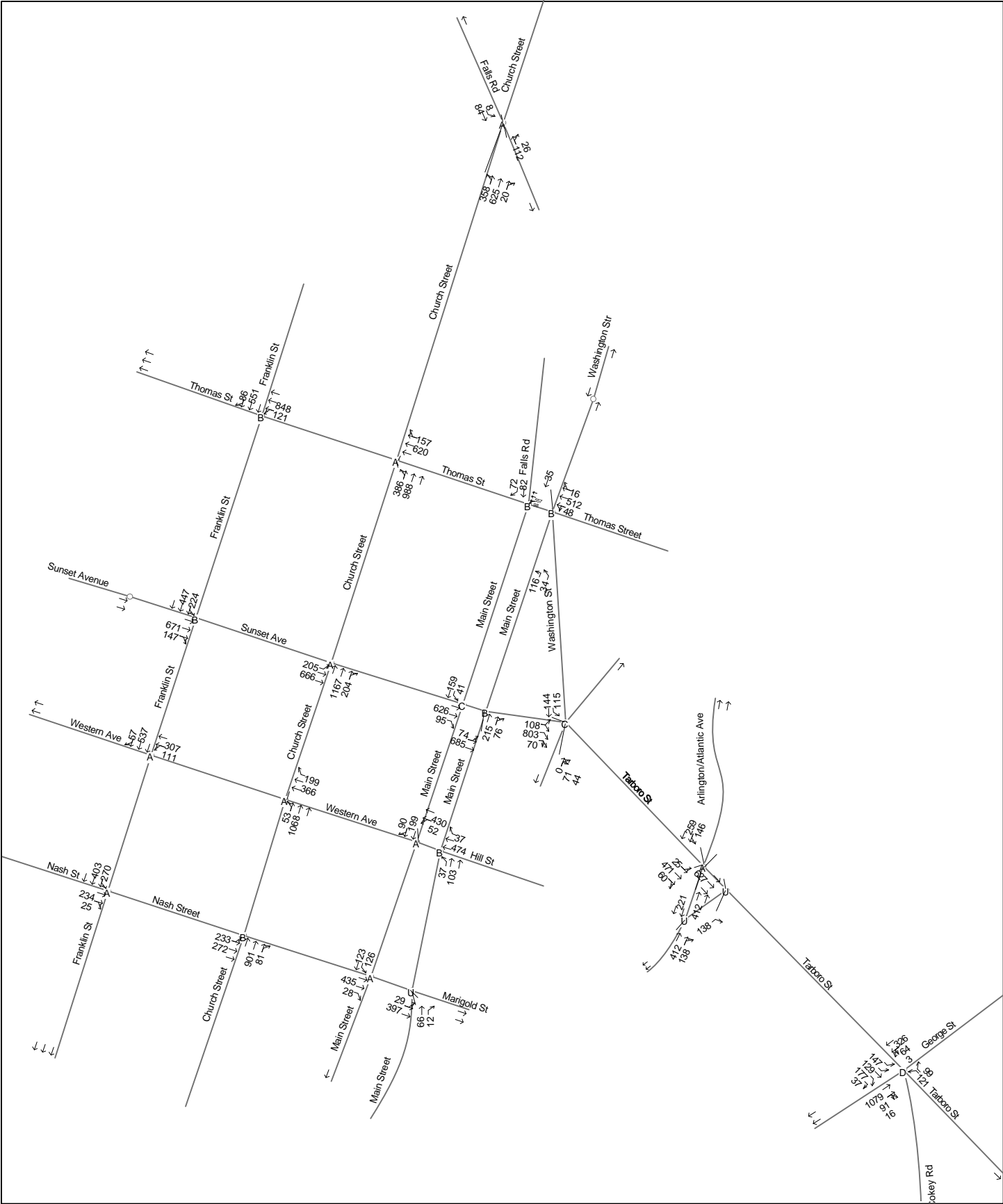
Figure 8



Rocky Mount Downtown Circulation Study

No-Build P.M. Peak Hour
Level of Service and Traffic Volumes

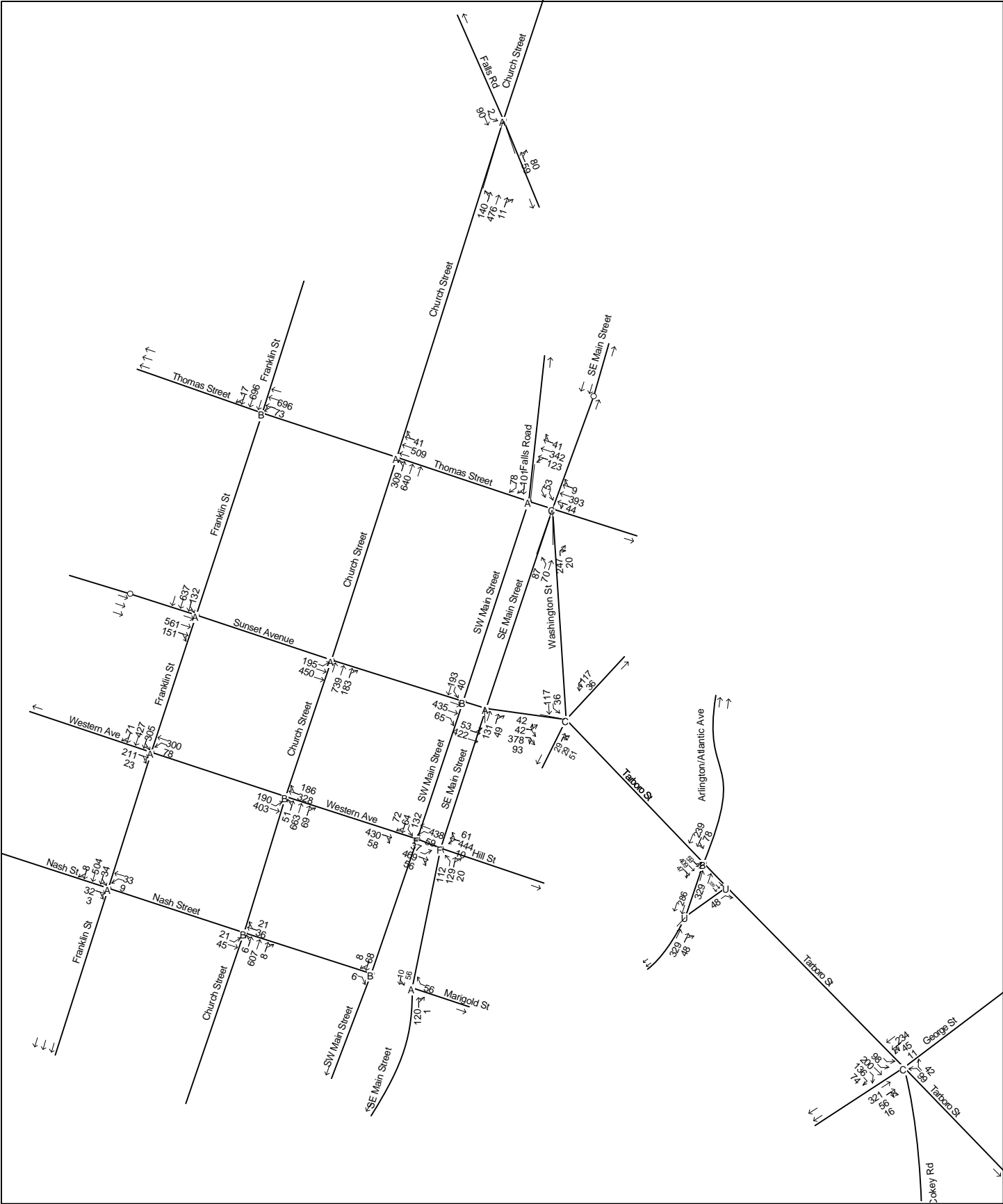
Figure 9



Rocky Mount Downtown Circulation Study

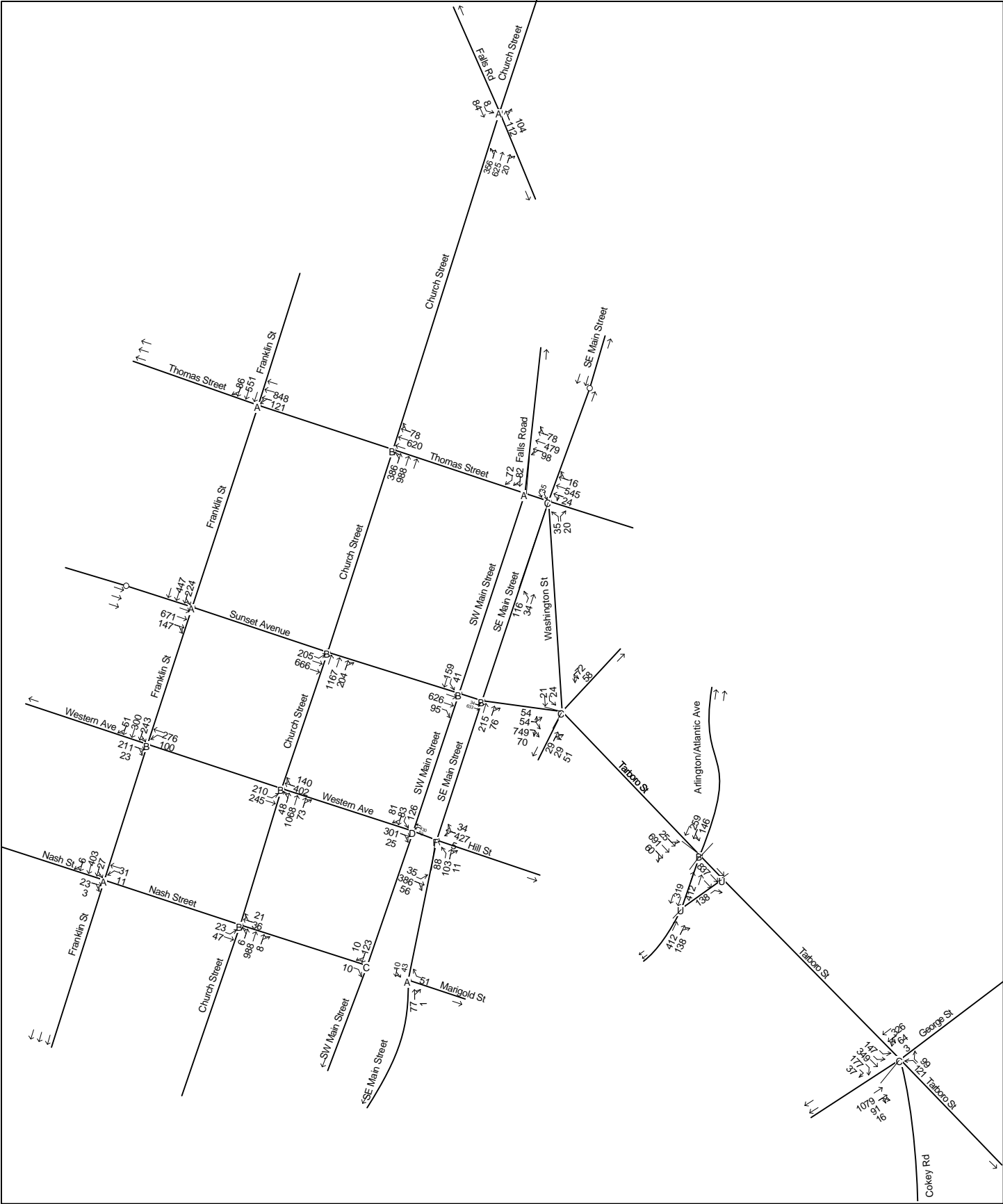
Alternative 1 - AM Peak
Level of Service and Traffic Volumes

Figure 10



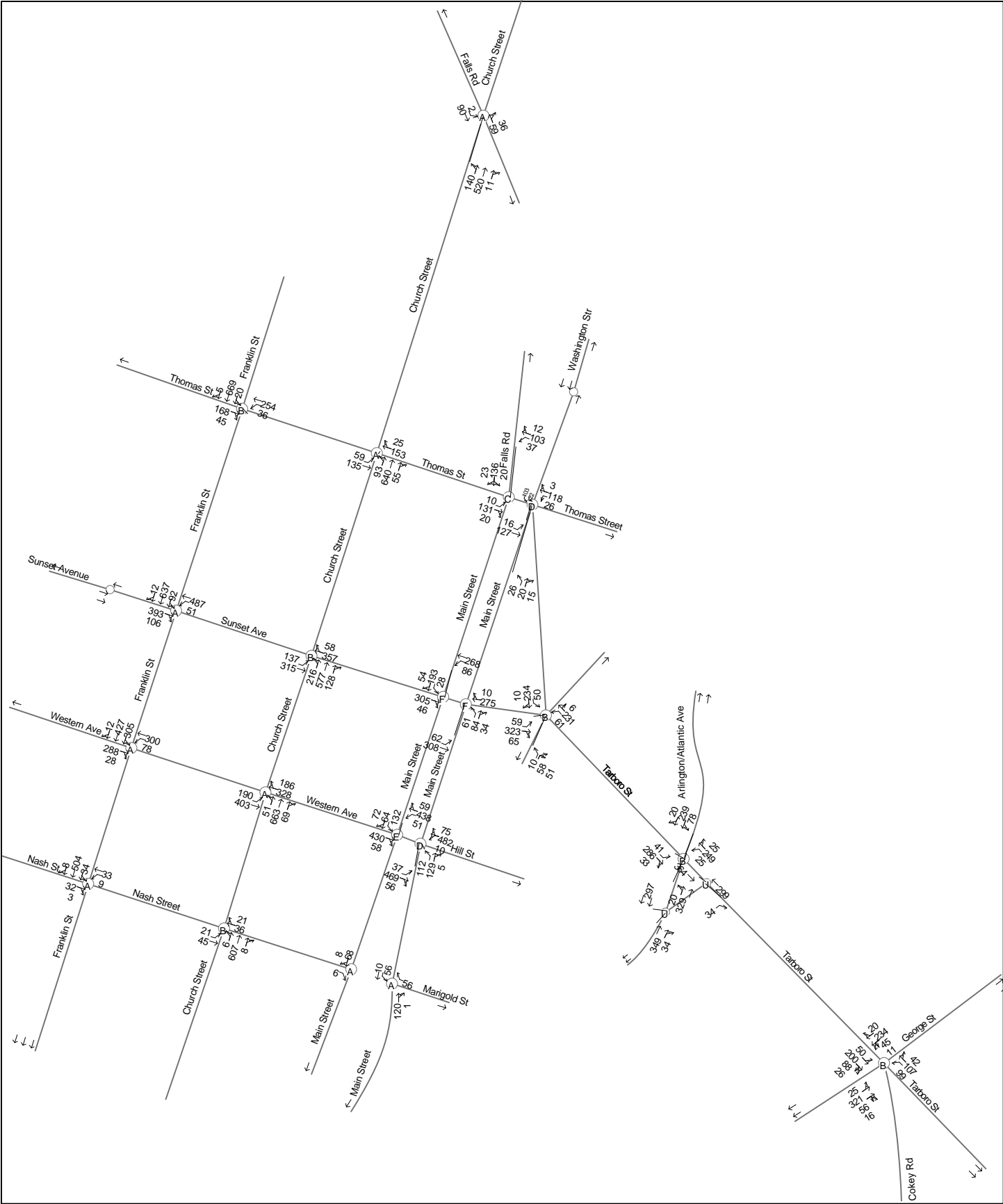
Alternative 1 - PM Peak
Level of Service and Traffic Volumes

Figure 11



Alternative 2 - A.M. Peak Hour
Level of Service and Traffic Volumes

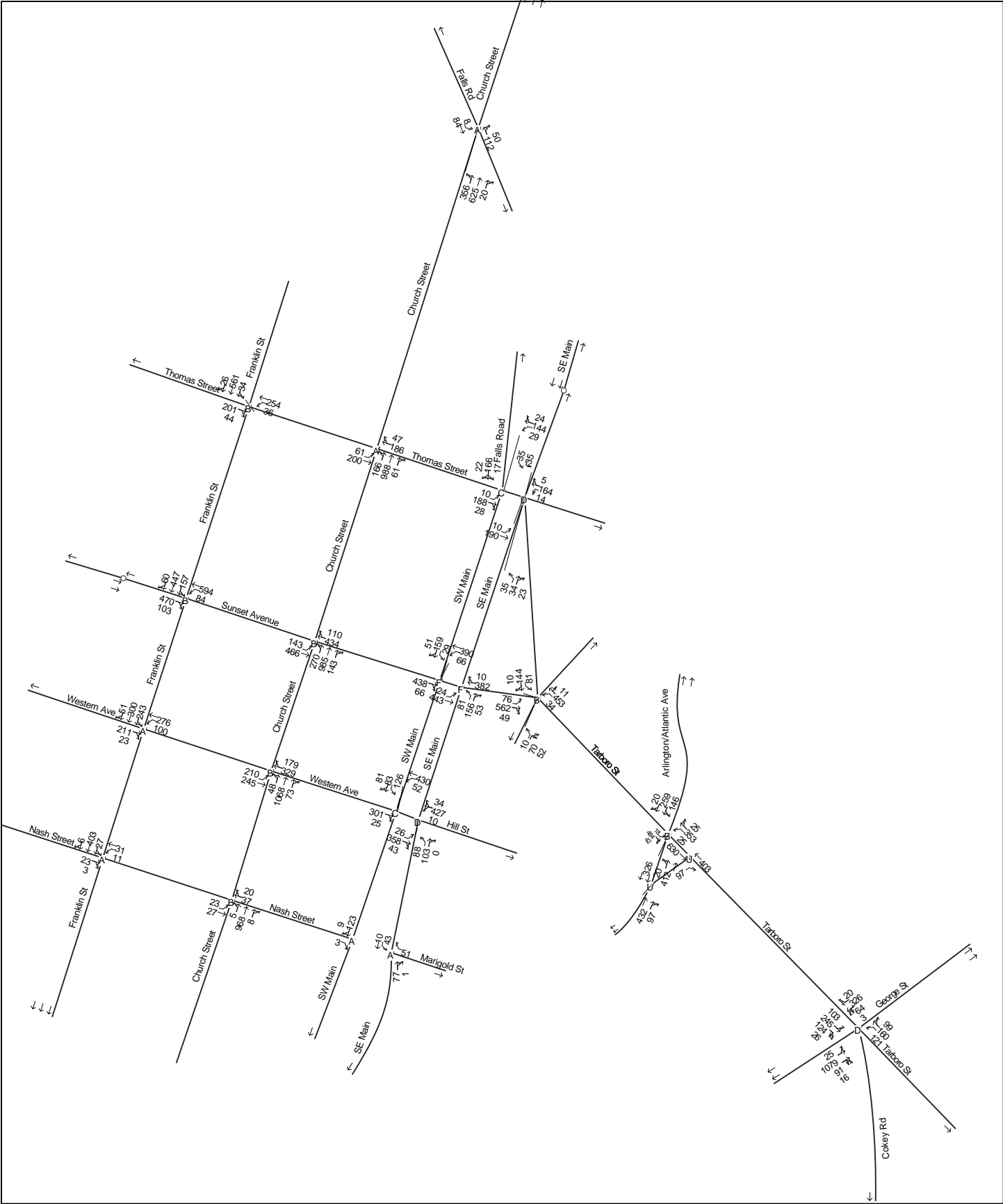
Figure 12



Rocky Mount Downtown Circulation Study

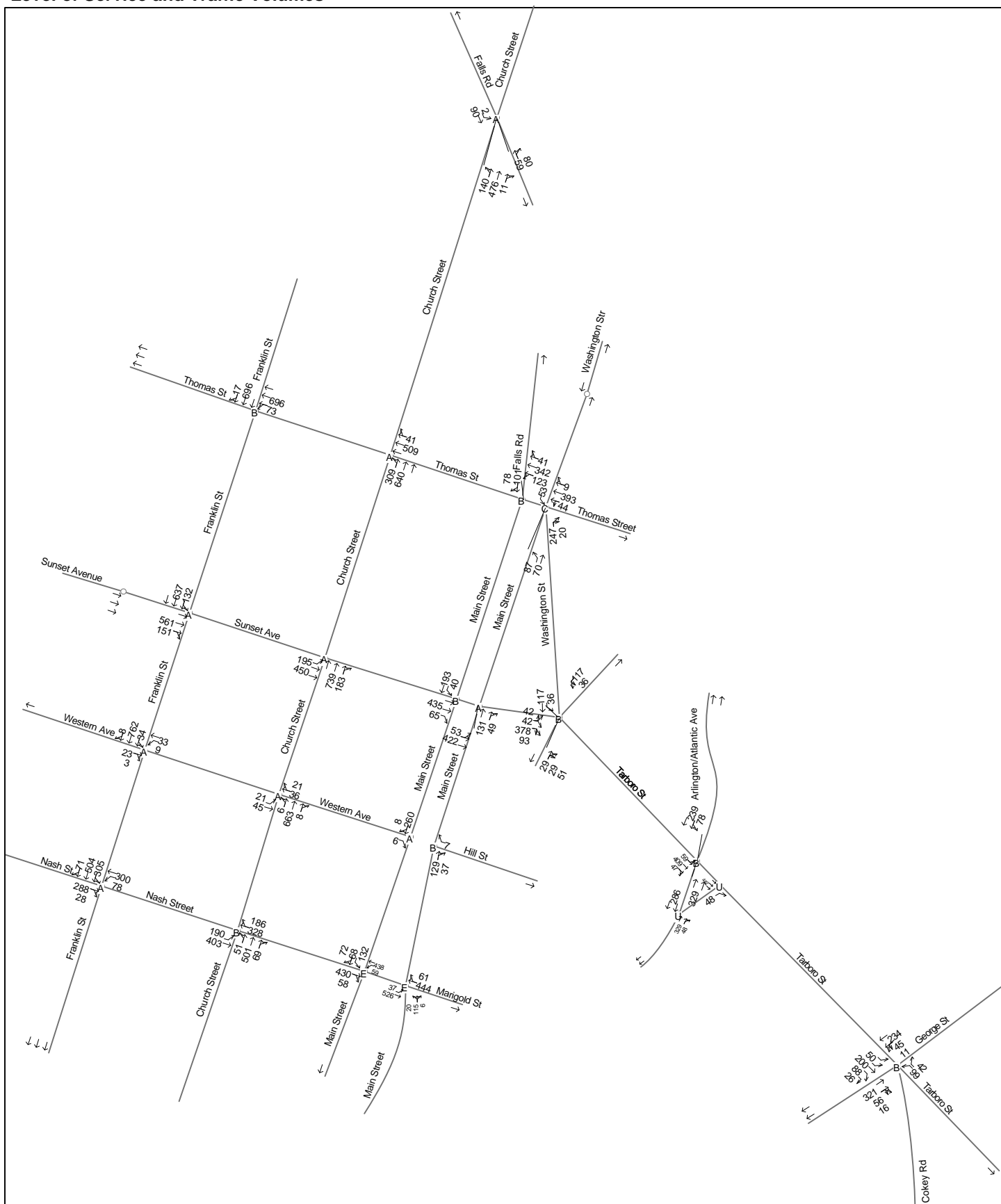
Alternative 2 - P.M. Peak Hour
Level of Service and Traffic Volumes

Figure 13



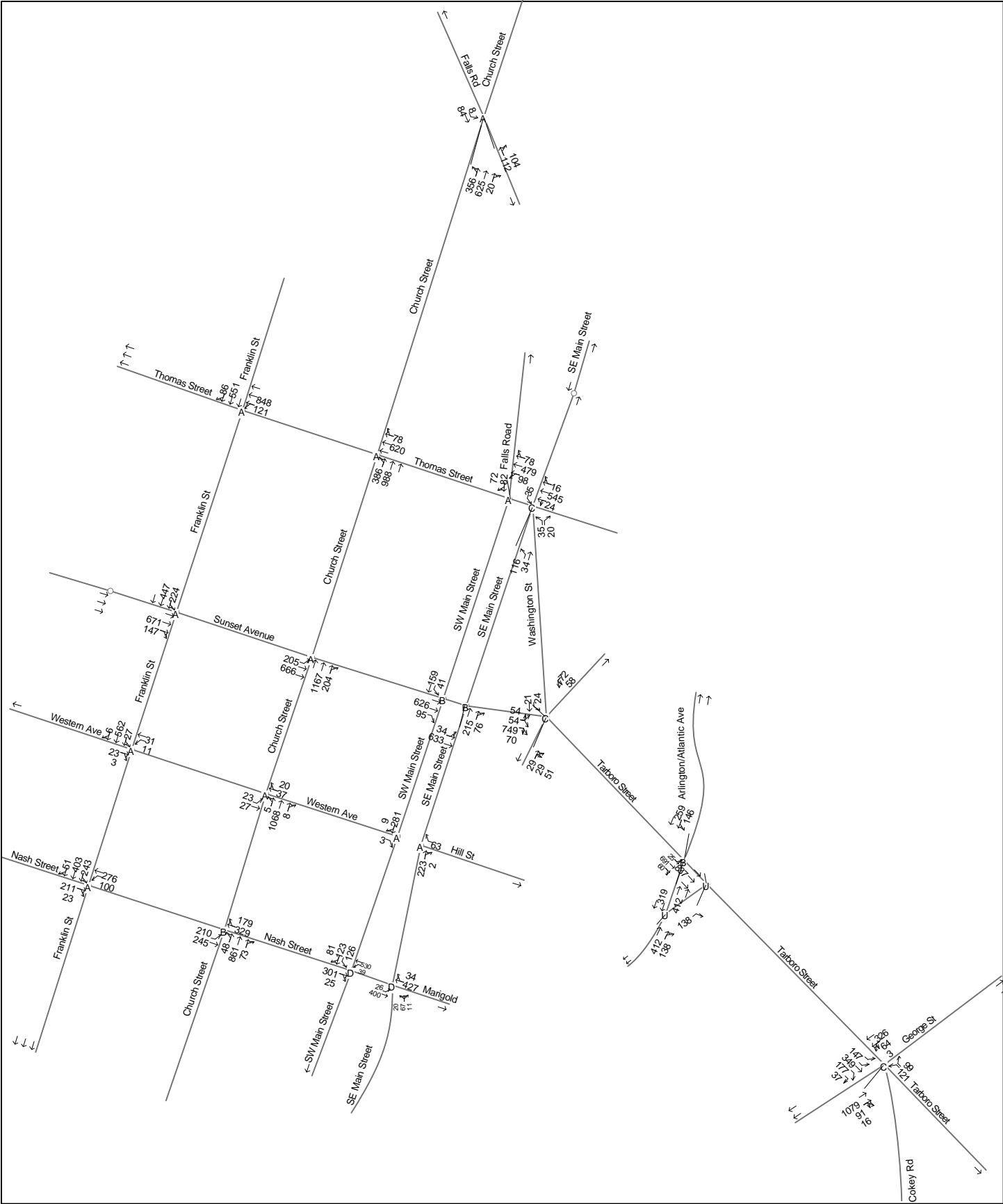
Alternative 3 - A.M. Peak Hour Level of Service and Traffic Volumes

Figure 14



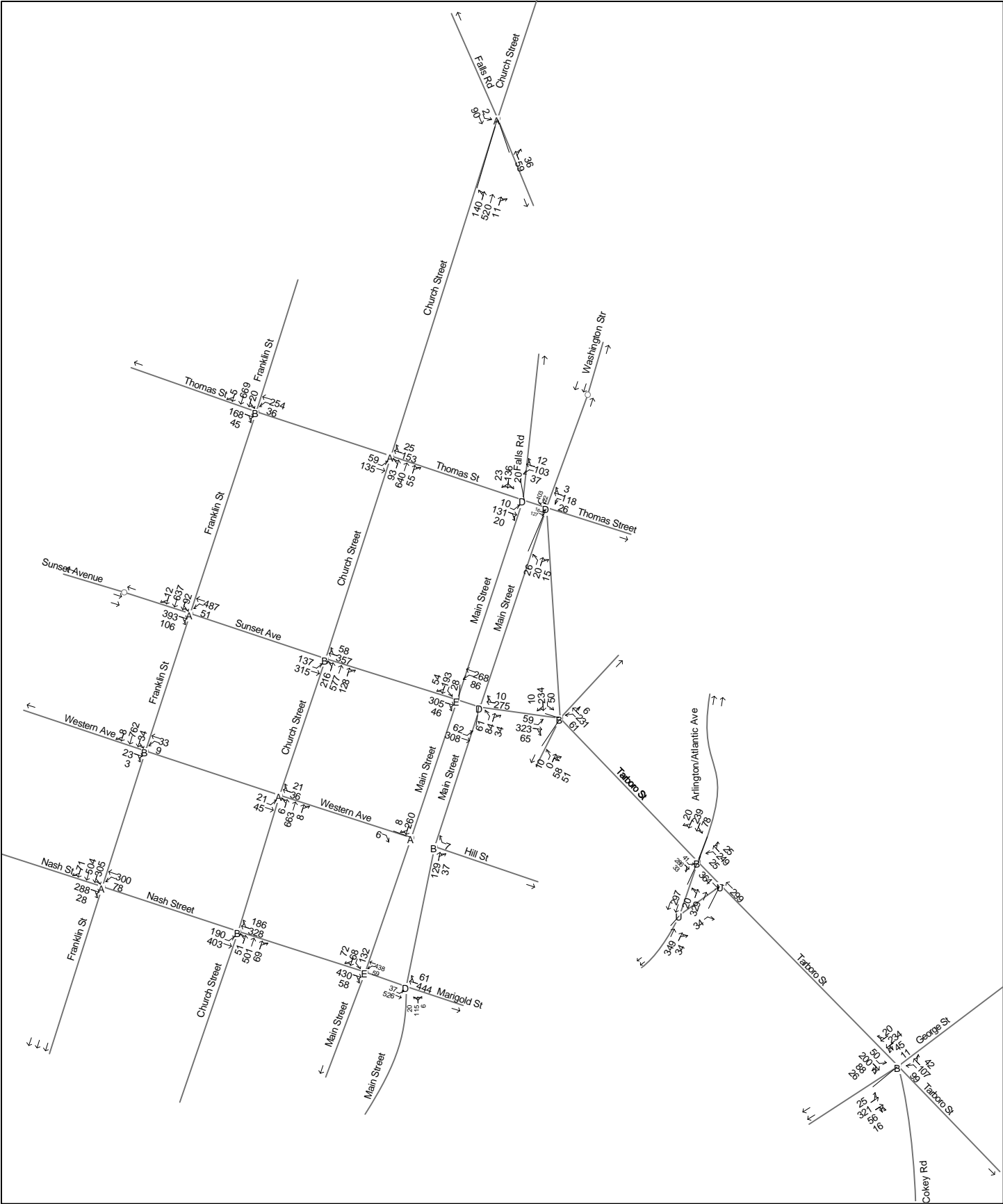
Alternative 3 - P.M. Peak Hour
Level of Service and Traffic Volumes

Figure 15



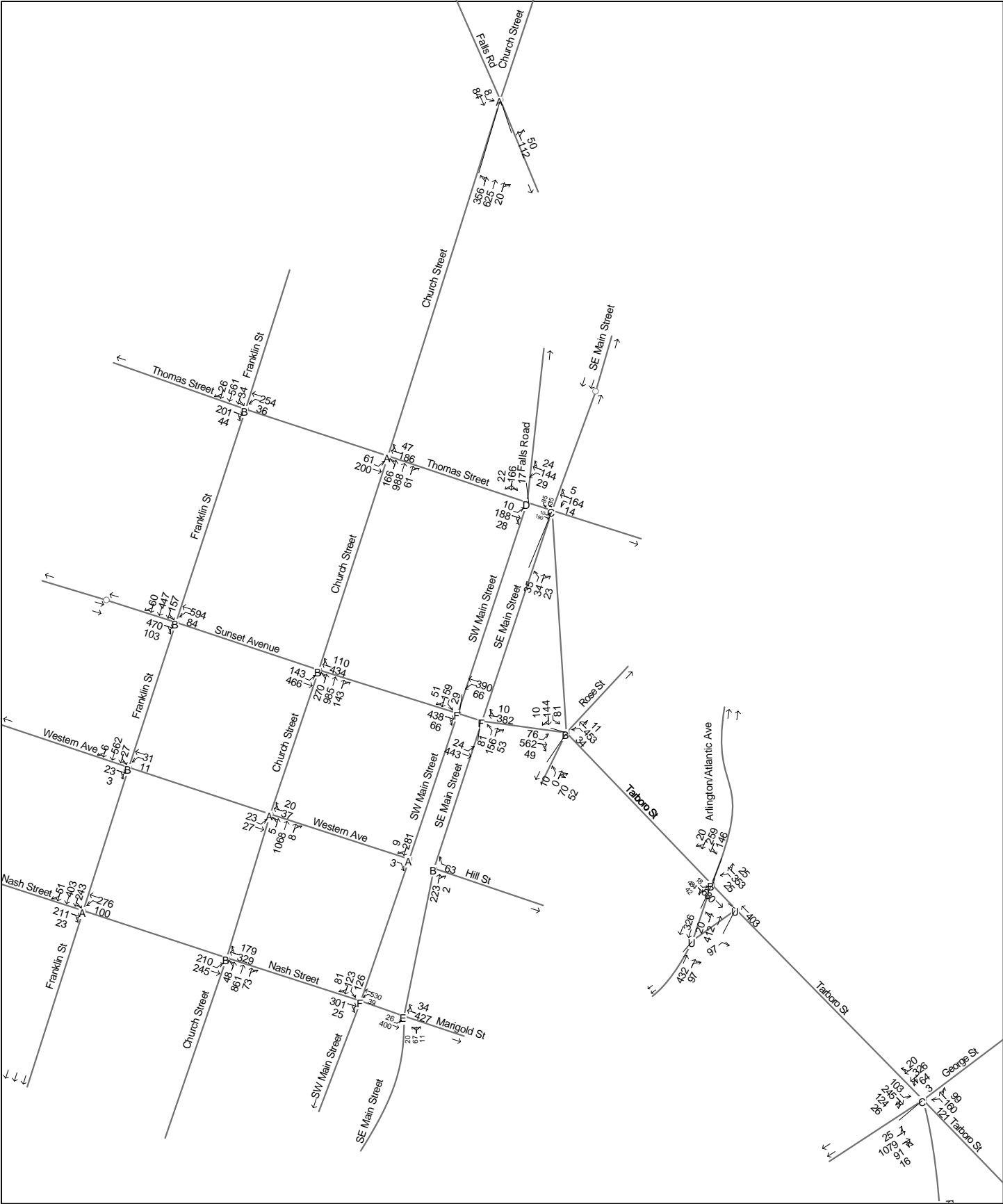
Alternative 4 - A.M. Peak Hour
Level of Service and Traffic Volumes

Figure 16



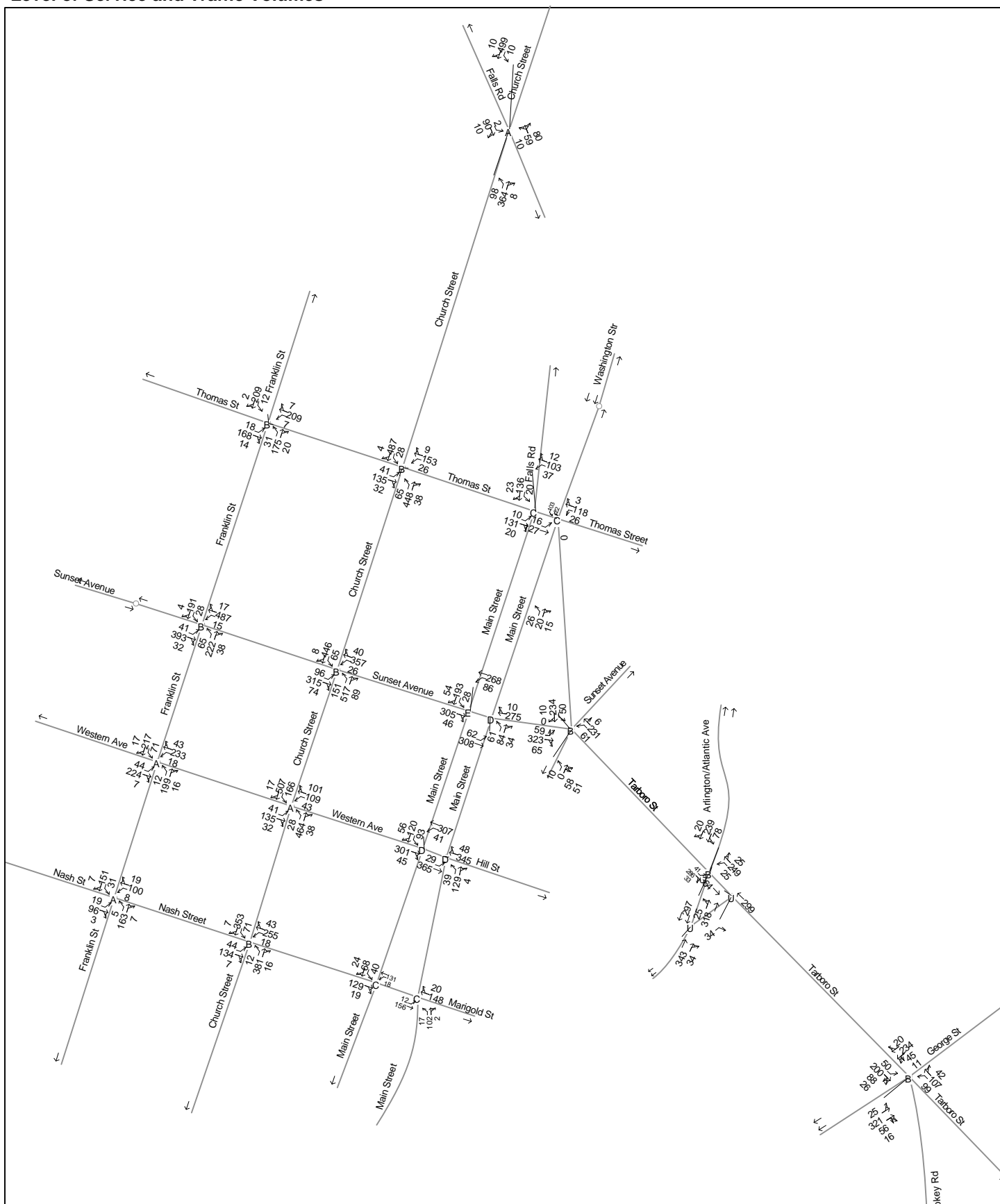
Alternative 4 - P.M. Peak Hour
Level of Service and Traffic Volumes

Figure 17



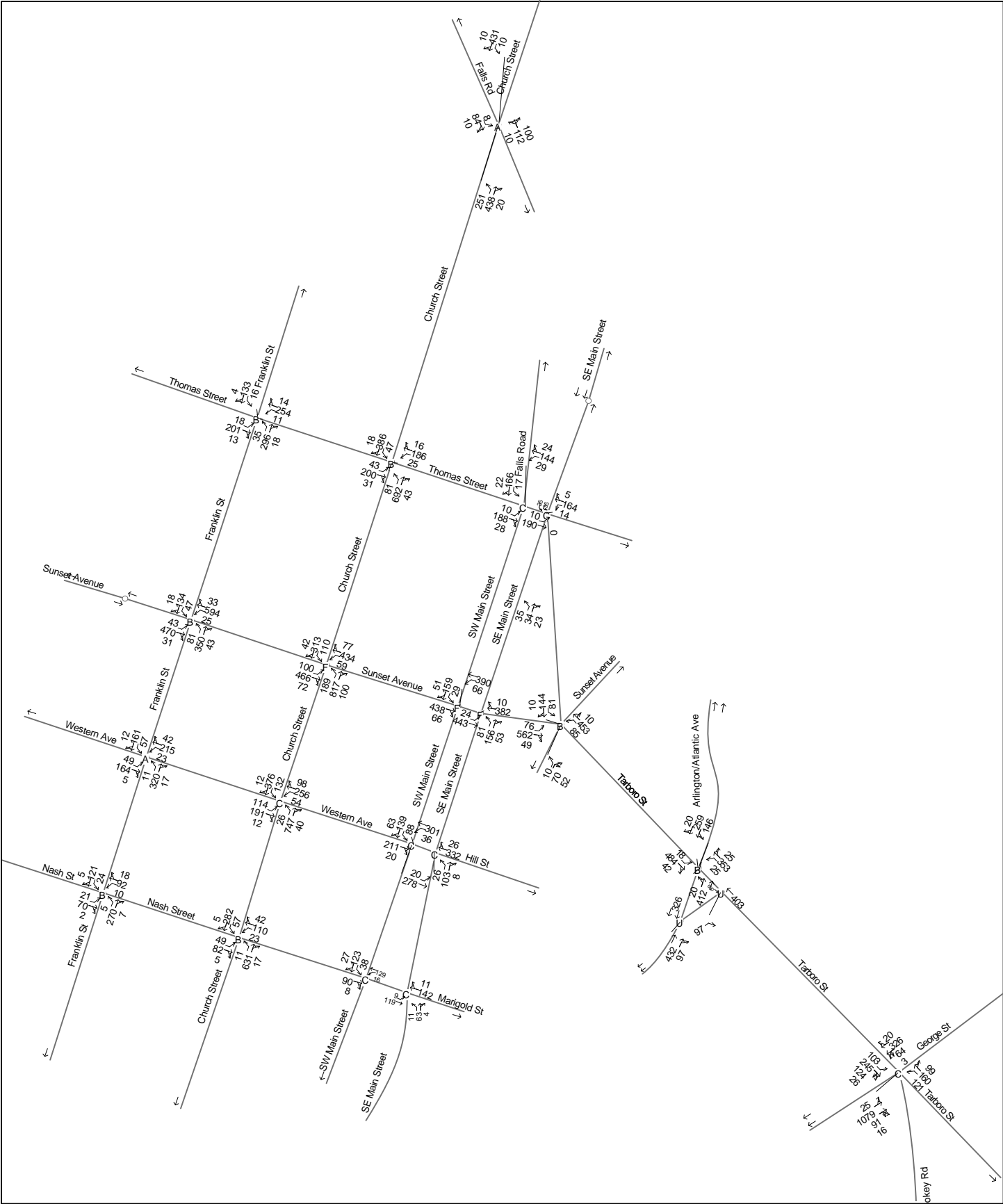
Alternative 5 - A.M. Peak Hour Level of Service and Traffic Volumes

Figure 18



Alternative 5 - P.M. Peak Hour
Level of Service and Traffic Volumes

Figure 19



Rocky Mount Downtown Circulation Study

6.0 OTHER SYSTEM MEASURES

P.M. PEAK HOUR TRAVEL TIME

Travel time is perhaps the most basic measure of the performance of a transportation network. Although travel time data collection was not part of this project, using the Synchro analysis output, it is possible to perform a comparative analysis of estimated travel time for a set origins and destinations. P.M. peak hour travel times were estimated for each alternative using the origins and destinations identified below.

- Origins
 - Intersection of Sunset Avenue and Grace Street
 - Intersection of Thomas Street and Atlantic Avenue
- Destinations
 - Intersection of Nash Street and S.W. Main Street
 - Intersection of Hill Street and S.E. Main Street
 - Intersection of Marigold Street and S.E. Main Street

Table 8 ranks Alternatives 1 through 5 based on the estimated travel time during the P.M. peak hour for each set of origins and destinations. The basis for the estimated travel times is summarized in Table 11 and Table 12.

Table 8 Alternatives Ranked by Estimated P.M. Peak Travel Times

| Origin | Destination | No-Build | Alt. 1 | | Alt. 2 | | Alt. 3 | | Alt. 4 | | Alt. 5 | |
|----------------------------------|--------------------------------|-------------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | | Travel Time | Travel Time | Rank | Travel Time | Rank | Travel Time | Rank | Travel Time | Rank | Travel Time | Rank |
| Sunset Avenue at Grace Street | Nash Street at Main Street | 3:02 | 2:33 | 1 | 2:53 | 2 | 3:03 | 3 | 3:22 | 4 | 3:53 | 5 |
| | Hill Street at Main Street | 3:47 | 1:59 | 1 | 4:22 | 3 | 3:42 | 2 | 5:46 | 5 | 5:31 | 4 |
| | Marigold Street at Main Street | 3:06 | 2:25 | 1 | 4:48 | 3 | 3:13 | 2 | 5:03 | 5 | 6:36 | 4 |
| Thomas Street at Atlantic Avenue | Nash Street at Main Street | 3:05 | 4:16 | 2 | 5:26 | 3 | 3:07 | 1 | 6:28 | 4 | 6:31 | 5 |
| | Hill Street at Main Street | 3:51 | 3:42 | 1 | 5:11 | 3 | 3:46 | 2 | 7:21 | 5 | 5:38 | 4 |
| | Marigold Street at Main Street | 3:10 | 4:08 | 2 | 5:36 | 3 | 3:17 | 1 | 6:37 | 5 | 5:45 | 4 |
| Average Rank | | - | 1.6 | | 2.8 | | 1.8 | | 4.6 | | 4.3 | |
| Overall Rank | | - | 1 | | 3 | | 2 | | 5 | | 4 | |

Note: Alternatives are ranked 1 through 5, least travel time to most travel time.

In addition to estimating P.M. peak hour travel times for each alternative for the origins and destinations identified above, P.M. peak hour travel times were also estimated for emergency vehicles responding from Fire Station 1 to the intersection of Thomas Street and Church Street. Table 9 ranks the alternatives in terms of estimated P.M. peak hour travel times between Fire Station 1 and the intersection of Thomas Street and Church Street. The basis for the estimated travel times is shown in Table 13.

Table 9 Alternatives Ranked by Fire Station 1 P.M. Peak Hour Travel Times

| Origin | Destination | No-Build | Alt. 1 | Alt. 2 | Alt. 3 | Alt. 4 | Alt. 5 |
|----------------|--------------------------------|----------|--------|--------|--------|--------|--------|
| Fire Station 1 | Thomas Street at Church Street | 2:42 | 4:28 | 4:11 | 5:11 | 6:07 | 3:48 |
| Rank | | - | 3 | 2 | 4 | 5 | 1 |

Note: Alternatives are ranked 1 through 5, least travel time to most travel time.

TRAFFIC QUEUES

One of the major concerns of stakeholders in the downtown area is the traffic queues expected to occur when the east-west one-way streets are converted to two-way operation. These concerns are magnified because of the combined impact of the traffic queues created when trains are passing through downtown temporarily stopping traffic from passing through downtown. The *SimTraffic* analysis outputs confirm that due to the reduced capacity of the intersections at the railroad crossings, traffic queues on the east-west streets are expected to increase when the streets are converted to two-way operation. Table 9 shows the estimated P.M. peak hour traffic queues for the east-west street on the approaches to Main Street. The alternatives were then ranked based on average estimated traffic queues by direction.

Table 10 Estimated Average P.M. Peak Hour Traffic Queues at Main Street

| Street | No-Build | | Alternative 1 | | Alternative 2 | | Alternative 3 | | Alternative 4 | | Alternative 5 | |
|---------------------------|----------|------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|------|
| | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB |
| Thomas St [1] | - | 115' | - | 75' | 25' | 200' | - | 115' | 160' | 235' | 100' | 120' |
| Sunset Ave/Tarboro St [1] | 180' | - | 55' | - | 340' | 210' | 100' | - | 385' | 205' | 345' | 235' |
| Western Ave/Hill St [1] | - | 145' | 385' | 240' | 220' | 280' | - | - | - | - | 100' | 245' |
| Nash St/Marigold St [1] | 55' | - | - | - | - | - | 305' | 160' | 285' | 175' | 75' | 75' |
| Average Queue [1] | 118' | 130' | 220' | 158' | 195' | 230' | 203' | 138' | 277' | 205' | 155' | 169' |
| Rank by Direction | - | - | 4 | 2 | 2 | 5 | 3 | 1 | 5 | 4 | 1 | 3 |
| Average Rank [2] | - | | 3 | | 3.5 | | 4 | | 4.5 | | 2 | |
| Overall Rank [2] | - | | 2 | | 3 | | 4 | | 5 | | 1 | |

Notes: [1] The average block lengths along the east-west streets are 400' for the eastbound streets and 270' for the westbound streets.

[2] Alternatives are ranked 1 through 5, shortest queues to longest queues

As indicated in Table 8, the impact of converting the one-way streets to two-way operation significantly increased traffic queue lengths on the approaches to Main Street and the railroad crossings.

TRAFFIC CIRCULATION IMPACTS

In addition to the level of service results and estimated travel time impacts, a number of general observations can be made concerning the anticipated impact of the various alternatives on traffic circulation in the downtown area.

Both of the railroad crossings under consideration for closure will significantly impact traffic circulation in the downtown core. Closing either of the railroad crossings under consideration would require the conversion of Hill Street/Western Avenue and Nash Street/Marigold Street to two-way operation and eliminate one of only four existing signalized railroad crossings in the downtown area. As illustrated in the level of service results, closing the rail crossings in the downtown area would be expected to significantly disrupt existing traffic patterns and reduce mobility and accessibility in the downtown area. It may be desirable to convert a block of Main Street to two-way operation between in order to provide an acceptable level of accessibility.



Closing the Hill Street/Marigold Street railroad crossing will interrupt the counterclockwise traffic pattern downtown.

Closing the railroad crossing on Hill Street/Western Avenue would have less impact on the counterclockwise traffic circulation in the downtown area than will closing the rail crossing on Nash Street/Marigold Street. If the rail crossing on Hill Street/Western Avenue were closed the existing counterclockwise circulation pattern would remain intact. However, if the Nash Street/Marigold Street rail crossing is closed, the existing counterclockwise circulation pattern will be interrupted and shortened by a block, significantly impact the accessibility of the land uses on the block of Main Street between Hill Street/Western Avenue and Nash Street/Marigold Street.

In addition to vehicular traffic pattern impacts, it is important to recognize that the proposed changes to vehicular traffic patterns will also impact pedestrian activity and travel patterns in the downtown area. Converting one-way streets to two-way streets increases the number of possible pedestrian-vehicle conflicts at intersections. However, two-way street should decrease vehicle speeds. Closing the railroad crossings in the downtown area will also impact pedestrians. Although a railroad crossing may be closed to vehicular traffic, it is vital that all crossings remain open to pedestrian traffic.

Table 11 Estimated P.M. Peak Hour Travel Times – Sunset Avenue/Grace Street

| Origin | Destination | No-Build | | Alternative 1 | | Alternative 2 | |
|-------------------------------|--------------------------------|-----------------------------------|-----------------|---|-----------------|---|-----------------|
| | | Route | Travel Time [1] | Route | Travel Time [1] | Route | Travel Time [1] |
| Sunset Avenue at Grace Street | Nash Street at Main Street | Sunset -> Main | 3:02 | Sunset -> Main | 2:33 | Sunset -> Main | 4:38 |
| | | | | | | Franklin -> Western -> SW Main | 2:53 |
| | Hill Street at Main Street | Sunset -> Main -> Nash -> SE Main | 3:47 | Sunset -> Main -> Western | 1:59 | Sunset -> Main -> Western | 4:22 |
| | Marigold Street at Main Street | Sunset -> Main -> Marigold | 3:06 | Sunset -> SW Main -> Western -> SE Main | 2:25 | Sunset -> SW Main -> Western -> SE Main | 4:48 |
| | Destination | Alternative 3 | | Alternative 4 | | Alternative 5 | |
| | Nash Street at Main Street | Sunset -> Main | 3:03 | Sunset -> Main | 4:53 | Sunset -> Main | 6:23 |
| | | | | Franklin -> Western -> SW Main | 3:22 | Franklin -> Western -> SW Main | 3:53 |
| | Hill Street at Main Street | Sunset -> Main -> Nash -> SE Main | 3:42 | Sunset -> Main -> Nash -> SE Main | 5:46 | Sunset -> Main -> Western | 5:31 |
| | Marigold Street at Main Street | Sunset -> Main -> Nash | 3:13 | Sunset -> Main -> Nash | 5:03 | Sunset -> Main -> Nash | 6:36 |

Table 12 Estimated P.M. Peak Hour Travel Times – Thomas Street/Church Street

| | | No-Build | | Alternative 1 | | Alternative 2 | |
|----------------------------------|--|--------------------------------------|-----------------|---|-----------------|---|-----------------|
| Origin | Destination | Route | Travel Time [1] | Route | Travel Time [1] | Route | Travel Time [1] |
| Thomas Street at Atlantic Avenue | 299 SW Main Nash Street @ S.W. Main Street | Sunset -> Main | 3:05 | Thomas -> Main | 4:16 | Thomas -> Main | 5:26 |
| | 199 SE Main Hill Street at S.E. Main Street | Sunset -> Main -> Nash -> SE Main | 3:51 | Thomas -> Main -> Western | 3:42 | Thomas -> Main -> Western | 5:11 |
| | 299 SE Main Marigold Street at S.E. Main Street | Sunset -> Main -> Marigold | 3:10 | Thomas -> Main -> Western -> SE Main | 4:08 | Thomas -> Main -> Western -> SE Main | 5:36 |
| | Destination | Alternative 3 | | Alternative 4 | | Alternative 5 | |
| | 299 SW Main Nash Street @ S.W. Main Street | Thomas -> Main | 3:07 | Thomas -> Main | 6:28 | Thomas -> Main | 6:31 |
| | 199 SE Main Hill Street at S.E. Main Street | Thomas -> Main -> Nash -> SE Main | 3:46 | Thomas -> Main -> Nash -> SE Main | 7:21 | Thomas -> Main -> Western | 5:38 |
| | 299 SE Main Marigold Street at S.E. Main Street | Thomas -> Main -> Nash | 3:17 | Thomas -> Main -> Nash | 6:37 | Thomas -> Main -> Nash | 5:45 |

Table 13 Estimated P.M. Peak Hour Travel Times – Fire Station 1

| | | No-Build | | Alternative 1 | | Alternative 2 | |
|----------------|--------------------------------|----------------------------------|-----------------|---|-----------------|--|-----------------|
| Origin | Destination | Route | Travel Time [1] | Route | Travel Time [1] | Route | Travel Time [1] |
| Fire Station 1 | Thomas Street at Church Street | George -> Hill/Western -> Church | 2:42 | George -> Hill/Western - > Church | 4:28 | George -> Hill/Western -> Church | 4:11 |
| | | Alternative 3 | | Alternative 4 | | Alternative 5 | |
| | | George -> Hill/Western -> Church | 5:11 | George -> Marigold/Nash -> Church | 6:07 | George -> Hill/Western -> Church | 3:48 |

7.0 ECONOMIC IMPACTS

Analyses were performed to assess the relative impact of the alternatives on the economic development in the downtown area.

ONE-WAY STREET CONVERSIONS

Since World War II, the traditional response to increasing congestion levels through urban areas has been to improve the flow of motor vehicles by adopting one-way street operations. This strategy was designed to reduce congestion without having to widen streets or construct new facilities. From a traffic engineering perspective, the one-way street patterns cut down on pedestrian accidents, moved commuter traffic through downtowns more quickly, and allowed for better synchronization of traffic lights.

After 40 – 50 years, the majority of opinion and research now suggests that one-way streets may be more detrimental to downtowns than helpful. Studies suggest that one-way streets confuse and disorient visitors, speed traffic, intimidate pedestrians, and complicate access to businesses. Although they may enhance traffic flow through a retail area, one-way streets may also impede or discourage destination traffic to that retail area.

In the retail marketplace, they may diminish the attractiveness and value of properties that lose storefront exposure and evening peak traffic. Retail exposure and visibility is significantly reduced when one direction of traffic is removed, causing one side of cross streets to be effectively “eclipsed” from view. Since many shopping trips are conducted on the way home from work, retailers on one-way streets en route to employment centers could be negatively impacted.

During the 1990s, a national trend began to convert some one-way streets back to two-way traffic circulation systems. Since the late 1990s, a number of cities including Albuquerque, Austin, Chattanooga, Cincinnati, Des Moines, Portland (OR), Sacramento, Seattle, St. Paul, St. Petersburg, Tampa, and Toledo have either initiated or considered the conversion of their downtown one-way streets to two-way operations.

For example, since 1991, Lakeland, FL has completed two-way conversions on a number of one-way road pairs in its downtown area for the purpose of revitalizing the downtown core. In addition to increasing the visibility of retailers and restaurants, the strategy has helped slow traffic, enhance the pedestrian environment, and ease parking. Congestion increases and level of services (LOS) diminutions have been partly mitigated by the redistribution of traffic on the more highly connected road network.

RAIL CROSSING CLOSURES

In addition to posing serious threats to health and safety, urban at-grade railroad crossings can adversely impact a retail environment. Train-vehicle collisions not only result in death and injury, but also may cause destruction of property, fires, and explosions. These threats and the prospect of traffic delays may create significant physical and psychological barriers for potential retail visitors. By closing these crossings to vehicular traffic, the perception of safety and mobility within urban retail areas may be enhanced.

PEDESTRIAN SKETCH PLAN METHODOLOGY

A pedestrian sketch-plan is a method to estimate pedestrian volumes and subsequent retail sales impact under existing and future conditions in a retail pedestrian activity area. This tool is used to identify areas of pedestrian traffic based on existing traffic data without the need to conduct pedestrian counts on all facilities. In the absence of a comprehensive retail market analysis and study, a sketch-plan can also be used to forecast impacts to pedestrian volumes and retail traffic as a result of future land use and/or transportation trip generation changes.

Retail Traffic

In developing a model estimating the number of retail pedestrians on Main Street, the following assumptions were made based on our understanding of the downtown Rocky Mount area, and existing industry standards, and fitting or calibrating the sketch plan model to the results of our retail market overview:

- Commercial traffic (e.g. deliveries, business services), based on industry standards, is assumed to represent 5 percent of total traffic
- Destination traffic represents the number of vehicles on a purposeful trip (e.g. errand, going to work, going to residence, shopping)
- Given the existing retail environment and the business survey, and the calibration of traffic volumes to order of magnitude retail sales and future trends and scenarios, the retail capture rate of destination traffic is estimated to be 75 percent on Main Street
- The average vehicle occupancy based on industry standards is estimated at 1.5 persons per vehicle
- Total retail pedestrian generation (vehicle) represents the number of retail pedestrians accessing the Rocky Mount study area
- Given the walkability of Main Street, retail walk trips are assumed to represent 10 percent of all retail vehicular trips

Based on peak hour turning movements, the estimated Average Daily Traffic (ADT) on Main Street in 2003 was 3,760. Of this daily total, 752 vehicles or 20 percent was assumed to be through traffic and 188 vehicles or 5 percent was assumed to be commercial traffic including deliveries and business services. Of the remaining destination traffic, 2,820 vehicles or 75 percent are assumed to be retail-oriented traffic.

Given average vehicle occupancy of 1.5, this traffic represents 3,173 retail pedestrians accessing Main Street by vehicle on a daily basis. Ten percent of this total approximates the number of additional retail pedestrians that access the study area through walk-only trips. In total, the vehicles and walkers traveling along Main Street represent approximately 3,490 retail pedestrians per day for the study area.

OVERVIEW

Using the pedestrian sketch-plan methodology, the existing retail traffic patterns were applied to the future traffic forecasts under the varying traffic assumptions for a 2025 design year. The following summarizes our analysis of the retail sales implications for the varying traffic alternatives.

- The primary impact of transportation alternatives is expected to be the redistribution of traffic within the downtown area
- Case studies suggest that retail destination traffic will sacrifice speed for an easier circulation pattern and an enhanced pedestrian environment
- Surveys of existing businesses indicate that most of their customers represent purposeful destination trips rather than traffic-related impulse or intercept trips
- Given the nature of existing retail activity, other factors outside of traffic patterns including the pedestrian environment, available parking, retail marketing, merchandising programs, number and type of merchandise/services offered, competing retail, and the socioeconomic profiles of downtown residents, employees, and visitors are likely to have a larger impact on retail sales
- The psychological impact of increased congestion may reduce projected retail sales



Main Street

CONCLUSIONS

- Other factors besides traffic will likely influence retail sales more than traffic modifications
- By diverting additional traffic onto Main Street, Alternative 3 and Alternative 4 could potentially generate higher design year retail sales than the No-Build scenario
- Alternatives 3 and 4 create a positive impact and are projected to exceed No-Build retail sales by \$7.8 million and \$8.8 million or 14.1% and 15.9% respectively (average annual change of 0.6% and 0.7% respectively)
- Alternatives 1, 2, and 5 are projected to generate fewer design year retail traffic and sales than the No-Build scenario decreasing sales by \$3.0 million, \$2.4 million, and \$3.6 million or 5.5%, 4.5%, and 6.5% respectively (average annual changes of 0.25%, 0.20%, and 0.29% respectively)
- All alternatives generate slightly more retail traffic than No-Build in the general area between the intersections of Main Street with Sunset Avenue and Hill Street/Western Avenue with Alternatives 3 and 4 generating moderately more retail traffic

- All alternatives generate slightly less retail traffic than No-Build in the general area between the intersections of Main Street with Thomas Street and Sunset Avenue
- Whereas Alternatives 3 and 4 generate slightly more retail traffic than No-Build along Main Street between Hill Street/Western Avenue and Nash Street/Marigold Street, Alternatives 1, 2, and 5 generate slightly less retail traffic

Table 14 Projected Retail Traffic and Sales

| | Design Year 2025 | | | | | |
|---|------------------|---------------|---------------|---------------|---------------|---------------|
| | No-Build | Alternative 1 | Alternative 2 | Alternative 3 | Alternative 4 | Alternative 5 |
| Average Daily Traffic (ADT) | 12,090 | 11,430 | 11,550 | 13,800 | 14,010 | 11,310 |
| Average Daily Retail Pedestrians | 11,221 | 10,608 | 10,720 | 12,808 | 13,003 | 10,497 |
| Annual Retail Pedestrians | 1,851,470 | 1,750,397 | 1,768,774 | 2,113,341 | 2,145,500 | 1,732,020 |
| Annual Retail Sales | \$55,544,105 | \$52,511,920 | \$53,063,227 | \$63,400,219 | \$64,365,005 | \$51,960,614 |
| Change from No-Build | - | (\$3,032,184) | (\$2,480,878) | \$7,856,114 | \$8,820,900 | (\$3,583,491) |
| Retail Sales Percent Change from No-Build | - | -5.5% | -4.5% | 14.1% | 15.9% | -6.5% |
| Annual Retail Sales Percent Change from No-Build, 2003-2025 | - | -0.2% | -0.2% | 0.6% | 0.7% | -0.3% |
| Rank | - | 4 | 3 | 2 | 1 | 5 |

Sources: BBP Associates, Martin/Alexiou/Bryson

Figure 20 2025 Projected Retail Sales by Transportation Alternative

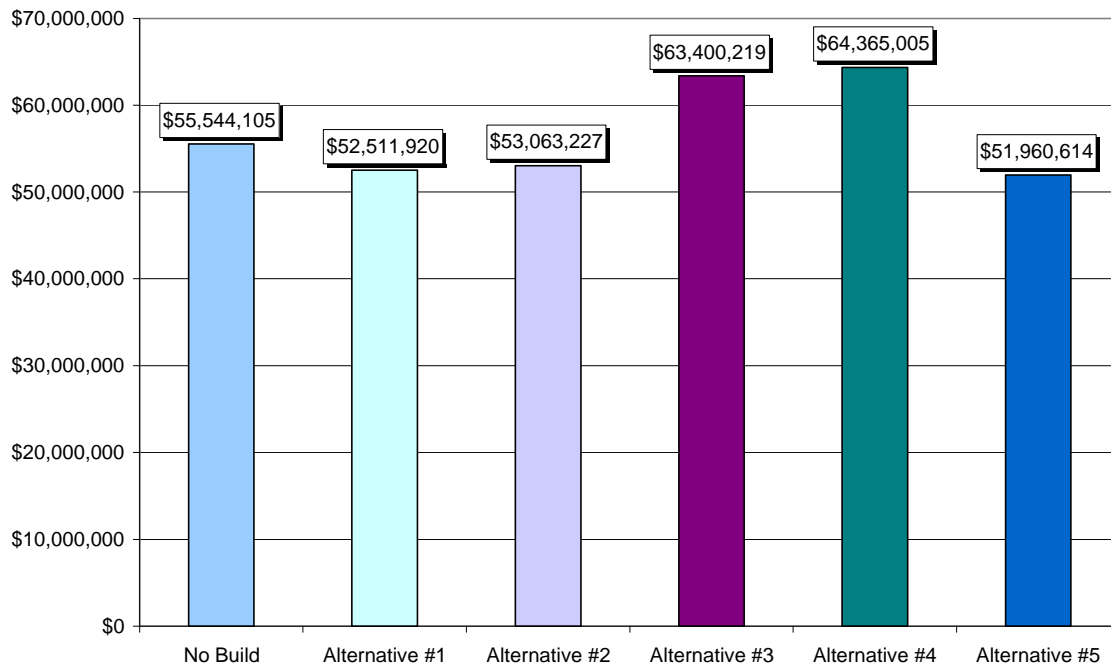


Table 15 Projected Change in Average Daily Traffic by Alternative

| Main Street Segments | Alternative 1 | Alternative 2 | Alternative 3 | Alternative 4 | Alternative 5 |
|--|---------------|---------------|---------------|---------------|---------------|
| Thomas - Sunset Southbound | 0 | 430 | 0 | 430 | 430 |
| Sunset - Thomas Northbound | -400 | -990 | -400 | -990 | -990 |
| Thomas - Sunset Totals | -400 | -560 | -400 | -560 | -560 |
| Percentage Change | -8.5% | -11.9% | -8.5% | -11.9% | -11.9% |
| Annual Percentage Change, 2003-2025 | -0.4% | -0.5% | -0.4% | -0.5% | -0.5% |
| Sunset - Western Southbound | 0 | 370 | 0 | 370 | 370 |
| Western - Sunset Northbound | 320 | 230 | 1,460 | 1,460 | 90 |
| Sunset - Western Totals | 320 | 600 | 1,460 | 1,830 | 460 |
| Percentage Change | 8.1% | 15.2% | 37.1% | 46.4% | 11.7% |
| Annual Percentage Change, 2003-2025 | 0.4% | 0.7% | 1.7% | 2.1% | 0.5% |
| Western - Nash Southbound | -910 | -910 | 330 | 330 | -560 |
| Nash - Western Northbound | 330 | 330 | 320 | 320 | -120 |
| Western - Nash Totals | -580 | -580 | 650 | 650 | -680 |
| Percentage Change | -12.4% | -12.4% | 13.9% | 13.9% | -14.5% |
| Total Traffic | -660 | -540 | 1,710 | 1,920 | -780 |
| Total Percentage Change | -5.5% | -4.5% | 14.1% | 15.9% | -6.5% |
| Annual Percentage Change, 2003-2025 | -0.2% | -0.2% | 0.6% | 0.7% | -0.3% |

Sources: Martin/Alexiou/Bryson, BBP Associates

Table 16 Retail Traffic Impact by Alternative

| Main Street Intersection Areas | Alternative 1 | Alternative 2 | Alternative 3 | Alternative 4 | Alternative 5 |
|--------------------------------|---------------|---------------|---------------|---------------|---------------|
| Thomas - Sunset Totals | - | - | - | - | - |
| Sunset - Western Totals | + | + | ++ | ++ | + |
| Western - Nash Totals | - | - | + | + | - |
| Total Traffic | - | - | + | + | - |

Sources: Martin/Alexiou/Bryson, BBP Associates

| | |
|--|----|
| Slightly negative impact (-0.2% to -0.4% per year) | - |
| Slightly positive impact (0.4% to 0.7% per year) | + |
| Moderately positive impact (1.7% to 2.1% per year) | ++ |

8.0 IMPLEMENTATION COSTS

In addition to evaluating the feasibility of closing either the Nash Street/Marigold Street or the Hill Street/Western Avenue at-grade railroad crossing and converting selecting one-way streets to two-way operation in terms of traffic operations and economic impact, the study also investigated the anticipated cost of the improvements required to implement the alternatives under evaluation. These preliminary cost estimates include items ranging from the cost of upgrading pavement markings to accommodate two-way traffic to realigning a portion of Sunset Avenue and Thomas Street in the vicinity of City Lake to facilitate the conversion of Sunset Avenue and Thomas Street to two-way operation. Cost estimates across the five (5) build alternative range from \$600,000 to \$2,300,000. More detail regarding the scope of the improvements associated with each of the build alternatives is provided below.

Table 17 Implementation Costs by Alternative

| Alternative | Anticipated Implementation Cost | Rank |
|---------------|---------------------------------|------|
| Alternative 1 | \$670,000 | 2 |
| Alternative 2 | \$1,900,000 | 4 |
| Alternative 3 | \$600,000 | 1 |
| Alternative 4 | \$1,800,000 | 3 |
| Alternative 5 | \$2,300,000 | 5 |

COSTS BY ALTERNATIVE

Alternative 1

It is anticipated that the improvements required to accommodate the closure of the Nash Street/Marigold Street crossing and the conversion of the Hill Street/Western Avenue crossing to two-way operation would be on the order of \$670,000. In terms of specific improvements, the list includes:

- Remove the traffic signal and railroad crossing devices at the intersection of Nash Street/Marigold Street and Main Street,
- Construct a pedestrian crossing at the Nash Street/Marigold Street crossing to maintain pedestrian access between SW Main Street and SE Main Street,
- Upgrade 12 signalized intersections along Nash Street/Marigold Street and Hill Street/Western Avenue between George Street and Grace Street to accommodate two-way traffic,
- Upgrade the railroad protection devices (gates and flashers) at Hill Street/Western Avenue to accommodate two-way traffic,
- Remove the traffic signal at Marigold Street and Washington Street,
- Reconstruct the intersection of George Street and Hill Street to increase the turning radius for fire trucks turning right from George Street onto Hill Street,
- Install pavement markings along Nash Street/Marigold Street and Hill Street/Western Avenue and upgrade pavement markings at signalized intersections from George Street to Grace Street in order to accommodate two-way traffic.

Alternative 2

In addition to the improvements associated with Alternative 1, Alternative 2 includes the improvements required to accommodate the conversion of the Sunset Avenue/Tarboro Street and Thomas Street to two-way operation between City Lake and George Street. A preliminary sketch of the realignment of Sunset Avenue, Thomas Street, and Piedmont Avenue is included in Appendix F as Figures F-1 and F-2. Based on preliminary estimates, the cost associated with implementation of Alternative 2 is estimated to be on the order of \$1,900,000. In addition to the improvements associated with Alternative 1, the list of improvements required to implement this alternative include:

- Upgrade an additional 14 signalized intersections along Sunset Avenue/Tarboro Street and Thomas Street George Street and Lee Street to accommodate two-way traffic (this brings the total number of intersection upgrades to 26),
- Upgrade the railroad protection devices (gates and flashers) at Sunset Avenue/Tarboro Street and Thomas Street to accommodate two-way traffic,
- Remove the traffic signals along West Thomas Street at Pine Street and at Lee Street,
- Install pavement markings along Sunset Avenue/Tarboro Street and Thomas Street and upgrade pavement markings at signalized intersections from west of City Lake to George Street,
- Realign Sunset Avenue between River Drive and Piedmont Avenue, realign West Thomas Street to a "T-intersection" with Sunset Avenue just west of the BP Gas Station, and realign Piedmont Avenue at its intersection with Sunset Avenue.

Alternative 3

It is anticipated that the improvements required to accommodate the closure of the Hill Street/Western Avenue crossing and the conversion of the Nash Street/Marigold Street crossing to two-way operation would be on the order of \$600,000. In terms of specific improvements, the list includes:

- Remove the traffic signal and railroad crossing devices at the intersection Main Street and Hill Street/Western Avenue,
- Construct a pedestrian crossing at the Hill Street/Western Avenue crossing to maintain pedestrian access between SW Main Street and SE Main Street,
- Upgrade 12 signalized intersections along Nash Street/Marigold Street and Hill Street/Western Avenue between George Street and Grace Street to accommodate two-way traffic,
- Upgrade the railroad protection devices (gates and flashers) at Nash Street/Marigold Street to accommodate two-way traffic,
- Remove the traffic signal at Hill Street and Washington Street,
- Reconstruct the intersection of George Street and Marigold Street to increase the turning radius for fire trucks turning right from George Street onto Marigold Street,
- Install pavement markings along Nash Street/Marigold Street and Hill Street/Western Avenue and upgrade pavement markings at signalized intersections from George Street to Grace Street in order to accommodate two-way traffic.

Alternative 4

In addition to the improvements associated with Alternative 3, Alternative 4 includes the improvements required to accommodate the conversion of the Sunset Avenue/Tarboro Street and Thomas Street to two-way operation between City Lake and George Street.

Based on preliminary estimates, the cost associated with implementation of Alternative 2 is estimated to be on the order of \$1,800,000. In addition to the improvements associated with Alternative 3, the list of improvements required to implement this alternative include:

- Upgrade an additional 14 signalized intersections along Sunset Avenue/Tarboro Street and Thomas Street George Street and Lee Street to accommodate two-way traffic (this brings the total number of intersection upgrades to 26),
- Upgrade the railroad protection devices (gates and flashers) at Sunset Avenue/Tarboro Street and Thomas Street to accommodate two-way traffic,
- Remove the traffic signals along West Thomas Street at Pine Street and at Lee Street,
- Install pavement markings along Sunset Avenue/Tarboro Street and Thomas Street and upgrade pavement markings at signalized intersections from west of City Lake to George Street,
- Realign Sunset Avenue between River Drive and Piedmont Avenue, realign West Thomas Street to a "T-intersection" with Sunset Avenue just west of the BP Gas Station, and realign Piedmont Avenue at its intersection with Sunset Avenue.

Alternative 5

The improvements required to convert the Nash Street/Marigold Street – Hill Street/Western Avenue, Thomas Street-Sunset Avenue/Tarboro Street, and Church Street-Franklin Street one-way pairs to two-way operation, include a majority of the improvements associated with the four (4) build alternatives which included a rail crossing closure. Taking into account these improvements, as well as the changes required to accommodate the conversion of the Church Street-Franklin Street one-way pair to two-way operation, it is anticipated that the total cost to implement this alternative would be on the order of \$2,300,000. A preliminary sketch of the realignment of Franklin Street at North Church Street and the reconfiguration of the intersection of Franklin Street and Bassett Street is included in Appendix F as Figures F-3 and F-4.

In terms of specific improvements required to implement Alternative 5, the list includes:

- Upgrade 26 signalized intersections along Nash Street/Marigold Street, Hill Street/Western Avenue, Sunset Avenue/Tarboro Street, and Thomas Street between George Street and Lee Street to accommodate two-way traffic,
- Upgrade the railroad protection devices (gates and flashers) at all four at-grade railroad crossings downtown (Thomas Street to Nash Street/Marigold Street) to accommodate two-way traffic,
- Remove the traffic signals along West Thomas Street at Pine Street and at Lee Street,
- Install pavement markings along Nash Street/Marigold Street, Hill Street/Western Avenue, Sunset Avenue/Tarboro Street, and Thomas Street and upgrade pavement markings at signalized intersections from west of City Lake to George Street,
- Reconstruct the intersection of George Street and Hill Street to increase the turning radius for fire trucks turning right from George Street onto Hill Street,
- Realign Sunset Avenue between River Drive and Piedmont Avenue, realign West Thomas Street to a T-intersection with Sunset Avenue just west of the Kangaroo Express BP Gas Station, and realign Piedmont Avenue at its intersection with Sunset Avenue.

- Realign Franklin Street at its intersection with North Church Street to create a “T-intersection”,
- Reconstruct intersection of Franklin Street and Bassett Street to accommodate two-way traffic on Franklin Street north of Bassett Street.
- Install pavement markings along Church Street and along Franklin Street and upgrade pavement markings at signalized intersections from the intersection of Franklin Street and North Church Street to Bassett Street.

CONCLUSIONS

Because of the wider area of impact, Alternatives 2, 4, and 5 have much higher implementation costs than Alternatives 1 and 3. Overall, Alternative 3 has the lowest implementation cost at \$600,000 followed by Alternative 1 at \$670,000.

9.0 PUBLIC PARTICIPATION

Public participation was a vital component of this project. Multiple opportunities were available for stakeholders to participate in the development of this project. As discussed in earlier sections of this report, stakeholders were interviewed as part of the economic analysis. Those interviews provided valuable insight into the history and future of business in the downtown area. In addition to the interviews, stakeholders were invited to two meetings to discuss the project. Stakeholders at both meetings were very involved and showed great interest in the direction of the project.

The first stakeholders meeting was held on November 4, 2004. Eleven stakeholders attended the meeting and topics of discussion included parking, the study area definition, future year traffic projections, the conversion of Sunset Avenue/Tarboro Street and Thomas Street to two-way operation, the inclusion of the railroad crossings on Goldleaf Street and Bassett Street, preferences to close the railroad crossing on Hill Street/Western Avenue instead of Nash Street/Marigold Street, and maintaining the counterclockwise traffic pattern on Main Street.

The project team presented the preliminary project work efforts to the planning board during their work session on November 9. Many of the same topics discussed at the stakeholder meeting on November 4 were discussed during the planning board work session. The topics of discussion included the purpose of the study, street cross-sections of streets if converted to two-way operation, anticipated economic impacts, possible changes to the railroad alignment, and difficulties downtown visitors have reported when traveling downtown. Based on feedback from this meeting, the project team began development of preliminary analysis scenarios.

Nine stakeholders attended a second stakeholders meeting on November 11, 2004. Many of the same topics discussed at the stakeholders meeting on November 4 were again discussed. The topics of discussion included the impacts of converting east-west streets to two-way operation with and without railroad closures, the impacts of closing railroad crossing in terms of traffic operations and economic development, possible conversion of Main Street to two-way operation, and the impact of converting Franklin Street and Church Street to two-way operation.

Based on the stakeholder and planning board meetings, the project team developed the five scenarios of future year conditions analyzed in this report.

On February 8, 2005, the project team attended a second planning board work session to present the preliminary analysis results. In addition to discussing the preliminary level of service results, board members were interested in the economic impacts of the proposed alternatives. The project team indicated that telephone interviews had been initiated in order to gather information directly from the stakeholders in the downtown area. Some members of the planning board again expressed concern that the scope of the project did not include the railroad crossings at Goldleaf Street and Bassett Street.

The feedback gathered at the stakeholder meetings provided a clear understanding of the local sentiment and provided direction for the development of the analysis scenarios included in this report. The active participation of the local stakeholders and planning board members ensured that the project continued to focus on issues that are important to the local community. Notes from the stakeholder and planning board meetings held during the development of this project are included in Appendix E.

10.0 FINDINGS AND RECOMMENDATIONS

LEVEL OF SERVICE ANALYSIS RESULTS

The level of service results indicate that the intersections adjacent to the railroad tracks (Main Street) are the most affected by the changes in traffic associated with the various alternatives. This is due to the geometry of the intersections that will result should the streets crossing the railroad be converted to two-way operation. Because of the location of the railroad crossings, the intersections adjacent to the railroad tracks are extremely wide. The location of the railroad tracks in close proximity to Main Street creates two very closely spaced intersections on each side of the railroad tracks that are operate as a single intersection. Fortunately, with the east-west streets being one-way, it is possible to provide an acceptable level of service. However, should the east-west streets be converted to two-way operation, the signal phasing would become much more complex. With such a wide intersection and the location of the railroad tracks, it is not feasible to allow permitted left-turn movements. Therefore, each approach to the intersection requires a protected phase within the traffic signal cycle. This increases the signal cycle length and increased delays for each approach to the intersection. This effect is apparent in the level of service results for Alternative 1 through 5. The following tables summarize the level of service analyses in terms of average vehicle delay and travel speeds for each alternative.

| Alternative | Average Vehicle Delay (sec/veh) | | | | Average Rank | Overall Rank |
|---------------------|---------------------------------|------|-----------|------|--------------|--------------|
| | A.M. Peak | Rank | P.M. Peak | Rank | | |
| No-Build Conditions | 00:11 | - | 00:12 | - | - | - |
| Alternative 1 | 00:17 | 1 | 00:19 | 2 | 1.5 | 2 |
| Alternative 2 | 00:24 | 5 | 00:26 | 3 | 4 | 3 |
| Alternative 3 | 00:17 | 1 | 00:14 | 1 | 1 | 1 |
| Alternative 4 | 00:20 | 4 | 00:30 | 4 | 4 | 3 |
| Alternative 5 | 00:19 | 3 | 00:42 | 5 | 4 | 3 |

Note: Alternatives are ranked 1 through 5, lowest average delay to highest average delay.

| Alternative | Average Vehicle Speed (mph) | | | | Average Rank | Overall Rank |
|---------------------|-----------------------------|------|-----------|------|--------------|--------------|
| | A.M. Peak | Rank | P.M. Peak | Rank | | |
| No-Build Conditions | 14 | - | 13 | - | - | - |
| Alternative 1 | 11 | 1 | 10 | 2 | 1.5 | 2 |
| Alternative 2 | 9 | 5 | 9 | 3 | 4 | 3 |
| Alternative 3 | 11 | 1 | 12 | 1 | 1 | 1 |
| Alternative 4 | 10 | 4 | 8 | 4 | 4 | 3 |
| Alternative 5 | 11 | 1 | 6 | 5 | 3 | 3 |

Note: Alternatives are ranked 1 through 5, highest average speed to lowest average speed.

In terms of average vehicle delay and average vehicle travel speeds, Alternative 3 results in less delay and higher travel speeds in comparison to the other alternatives.

OTHER SYSTEM MEASURES

Analysis of P.M. Peak hour travel times for alternatives 1 through 5 indicate that number of streets that are converted to two-way operation increases so does the estimated travel time across the study area. As travel time increases through and about the study area, motorists, especially commuters may eventually find more convenient routes through downtown or may divert around downtown all together. The table below shows how the alternatives rank relative to one another based on the estimated P.M. peak hour travel times for the origins and destinations shown.

Alternative Ranking by P.M. Peak Hour Travel Time

| Origin | Destination | No-Build | Alt. 1 | | Alt. 2 | | Alt. 3 | | Alt. 4 | | Alt. 5 | |
|----------------------------------|--------------------------------|-------------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | | Travel Time | Travel Time | Rank | Travel Time | Rank | Travel Time | Rank | Travel Time | Rank | Travel Time | Rank |
| Sunset Avenue at Grace Street | Nash Street at Main Street | 3:02 | 2:33 | 1 | 2:53 | 2 | 3:03 | 3 | 3:22 | 4 | 3:53 | 5 |
| | Hill Street at Main Street | 3:47 | 1:59 | 1 | 4:22 | 3 | 3:42 | 2 | 5:46 | 5 | 5:31 | 4 |
| | Marigold Street at Main Street | 3:06 | 2:25 | 1 | 4:48 | 3 | 3:13 | 2 | 5:03 | 5 | 6:36 | 4 |
| Thomas Street at Atlantic Avenue | Nash Street at Main Street | 3:05 | 4:16 | 2 | 5:26 | 3 | 3:07 | 1 | 6:28 | 4 | 6:31 | 5 |
| | Hill Street at Main Street | 3:51 | 3:42 | 1 | 5:11 | 3 | 3:46 | 2 | 7:21 | 5 | 5:38 | 4 |
| | Marigold Street at Main Street | 3:10 | 4:08 | 2 | 5:36 | 3 | 3:17 | 1 | 6:37 | 5 | 5:45 | 4 |
| Average Rank | | - | 1.6 | | 2.8 | | 1.8 | | 4.6 | | 4.3 | |
| Overall Rank | | - | 1 | | 3 | | 2 | | 5 | | 4 | |

Note: Alternatives are ranked 1 through 5, least travel time to most travel time.

Emergency vehicles are affected by changes to the downtown street operations just as other vehicles traveling in the downtown area. Analysis of estimated peak hour travel times for emergency vehicles from Fire Station 1 to the intersection of Thomas Street and Church Street indicate that Alternatives 3 and 4 would have the most significant impact on travel time. The table below ranks the alternative relative to one another based on the estimated peak hour travel times between Fire Station 1 and the intersection of Thomas Street and Church Street. While the results indicate an increase in travel time, responding to the intersection of Thomas Street and Church Street is the worst-case scenario for Fire Station 1. The intersection of Thomas Street and Church Street is in the far reaches of the response area for Fire Station 1 and the travel times analyzed in this study are for the P.M. peak hour. Travel times during off-peak periods would not be expected to reach these levels.

Alternative Ranking by Fire Station 1 P.M. Peak Hour Travel Time

| Origin | Destination | No-Build | Alt. 1 | Alt. 2 | Alt. 3 | Alt. 4 | Alt. 5 |
|----------------|--------------------------------|----------|--------|--------|--------|--------|--------|
| Fire Station 1 | Thomas Street at Church Street | 2:42 | 4:28 | 4:11 | 5:11 | 6:07 | 3:48 |
| Rank | | - | 3 | 2 | 4 | 5 | 1 |

Note: Alternatives are ranked 1 through 5, least travel time to most travel time.

Simtraffic analysis outputs indicate that the conversion of the east-west streets to two-way operation will result in significant increases in traffic queues on the approaches to Main Street. The table below shows the how the alternatives rank relative to one another based on estimated P.M. peak hour traffic queues.

Alternative Ranking by P.M. Peak Hour Traffic Queues at Main Street

| Street | No-Build | | Alternative 1 | | Alternative 2 | | Alternative 3 | | Alternative 4 | | Alternative 5 | |
|-----------------------|----------|------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|------|
| | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB |
| Thomas St | - | 115' | - | 75' | 25' | 200' | - | 115' | 160' | 235' | 100' | 120' |
| Sunset Ave/Tarboro St | 180' | - | 55' | - | 340' | 210' | 100' | - | 385' | 205' | 345' | 235' |
| Western Ave/Hill St | - | 145' | 385' | 240' | 220' | 280' | - | - | - | - | 100' | 245' |
| Nash St/Marigold St | 55' | - | - | - | - | - | 305' | 160' | 285' | 175' | 75' | 75' |
| Average Queue | 118' | 130' | 220' | 158' | 195' | 230' | 203' | 138' | 277' | 205' | 155' | 169' |
| Rank by Direction | - | - | 4 | 2 | 2 | 5 | 3 | 1 | 5 | 4 | 1 | 3 |
| Average Rank | - | | 3 | | 3.5 | | 4 | | 4.5 | | 2 | |
| Overall Rank | - | | 2 | | 3 | | 4 | | 5 | | 1 | |

Notes: [1] The average block lengths along the east-west streets are 400' for the eastbound streets and 270' for the westbound streets.

[2] Alternatives are ranked 1 through 5, shortest queues to longest queues

Certain conclusions can also be drawn based the impact that closing a railroad crossing would have in the downtown area. Stakeholders have indicated a desire to maintain current counterclockwise traffic pattern on Main Street. Closing the railroad crossing Nash Street/Marigold Street will disrupt that traffic pattern. However, closing the rail crossing on Hill Street/Western Avenue allows the counterclockwise traffic pattern on Main Street between Thomas Street and Nash Street/Marigold Street to be maintained.

ECONOMIC IMPACTS

Analyses were also performed to assess the relative economic impact of each alternative. The analyses included interviewing the downtown stakeholders to assess the current business climate in the downtown area and to gauge the economic future of the downtown area. A model was developed to assess the relative economic impacts of each alternative based on the prevailing traffic patterns created by each alternative. The conclusions of the economic analysis is summarized below:

- Other factors besides traffic will likely influence retail sales more than traffic modifications
- By diverting additional traffic onto Main Street, Alternative 3 and Alternative 4 could potentially generate higher design year retail sales than the No-Build scenario
- Alternatives 3 and 4 create a positive impact and are projected to exceed No-Build retail sales by \$7.8 million and \$8.8 million or 14.1% and 15.9% respectively (average annual change of 0.6% and 0.7% respectively)
- Alternatives 1, 2, and 5 are projected to generate fewer design year retail traffic and sales than the No-Build scenario decreasing sales by \$3.0 million, \$2.4 million, and \$3.6 million or 5.5%, 4.5%, and 6.5% respectively (average annual changes of 0.25%, 0.20%, and 0.29% respectively)
- All alternatives generate slightly more retail traffic than No-Build in the general area between the intersections of Main Street with Sunset Avenue and Hill Street/Western Avenue with Alternatives 3 and 4 generating moderately more retail traffic
- All alternatives generate slightly less retail traffic than No-Build in the general area between the intersections of Main Street with Thomas Street and Sunset Avenue
- Whereas Alternatives 3 and 4 generate slightly more retail traffic than No-Build along Main Street between Hill Street/Western Avenue and Nash Street/Marigold Street, Alternatives 1, 2, and 5 generate slightly less retail traffic

The table below summarizes the impact of each alternative on retail sales in the downtown area.

| | No-Build | Alternative 1 | Alternative 2 | Alternative 3 | Alternative 4 | Alternative 5 |
|----------------------------|-----------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Annual Retail Sales | \$55.5 M | \$52.5 M | \$53.0 M | \$63.40 M | \$64.37 M | \$51.0 |
| Rank | - | 4 | 3 | 2 | 1 | 5 |

IMPLEMENTATION COSTS

In addition to evaluating the feasibility of closing either the Nash Street/Marigold Street or the Hill Street/Western Avenue at-grade railroad crossing and converting selecting one-way streets to two-way operation in terms of traffic operations and economic impact, the study also investigated the anticipated cost of the improvements required to implement the alternatives under evaluation. These preliminary cost estimates include items ranging from the cost of upgrading pavement markings to accommodate two-way

traffic to realigning a portion of Sunset Avenue and Thomas Street in the vicinity of City Lake to facilitate the conversion of Sunset Avenue and Thomas Street to two-way operation. Cost estimates across the five (5) build alternative range from \$600,000 to \$2,300,000. The table below includes a summary of the anticipated improvements associated with each of the alternatives. More detail regarding the scope of the improvements associated with each of the build alternatives is provided below. The table below ranks the alternatives relative to one another based on the anticipated implementation cost.

Alternative Ranking by Implementation Cost

| Alternative | Anticipated Implementation Cost | Rank |
|---------------|---------------------------------|------|
| Alternative 1 | \$670,000 | 2 |
| Alternative 2 | \$1,900,000 | 4 |
| Alternative 3 | \$600,000 | 1 |
| Alternative 4 | \$1,800,000 | 3 |
| Alternative 5 | \$2,300,000 | 5 |

OVERALL ALTERNATIVE RANKING

A number of measures were developed in this study to assess the impact of each alternative on traffic operations in the downtown area. The alternative has been ranked relative to one based on each of these alternatives. The table below summarizes those rankings based on average vehicle delay, average vehicle speed, average P.M. peak hour traffic queues at Main Street, average P.M. peak hour travel time between specified origins, average P.M. peak hour travel times between Fire Station 1 and the intersection of Thomas Street and Church Street, anticipated Implementation Costs, and impact on retail traffic.

Overall Alternative Ranking

| Alternative | Average Vehicle Delay | Average Vehicle Speed | Average P.M. Peak Hour Queues | Average P.M. Peak Hour Travel Times | Average Fire Station 1 P.M. Peak Hour Travel Times | Anticipated Implementation Cost | Impact on Retail Traffic | Average Ranking | Overall Ranking |
|-------------|-----------------------|-----------------------|-------------------------------|-------------------------------------|--|---------------------------------|--------------------------|-----------------|-----------------|
| 1 | 2 | 2 | 2 | 1 | 3 | 2 | 4 | 2.3 | 2 |
| 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 3.0 | 3 |
| 3 | 1 | 1 | 4 | 2 | 4 | 1 | 2 | 2.1 | 1 |
| 4 | 3 | 3 | 5 | 5 | 5 | 3 | 1 | 3.6 | 5 |
| 5 | 3 | 3 | 1 | 4 | 1 | 5 | 5 | 3.1 | 4 |

RECOMMENDATIONS

This report includes a relatively detailed evaluation of the implications of closing one of the existing at-grade railroad crossings and the conversion of one-way streets to two-way operation in the downtown area. However, in addition to the impacts measured in this report, there are a wide range of other impacts that must factor into any decision

concerning changes to traffic circulation in the downtown study area. With that said, the intent of this study is to quantify the impacts of the various alternatives under consideration in terms of traffic operations and economic impact and to compare the alternatives to one another based on those impacts.

The alternatives considered in this study result have varying impacts on traffic operations and the economic outlook in the downtown area. However, based on the results of the analyses in this study, Alternative 3 ranks the highest in comparison to all the other alternatives. If implemented, Alternative 3 would be expected to result in increased delay in the study area, but it is expected to have a positive impact on retail traffic in the downtown area and to have the lowest implementation cost of all the alternatives considered.

The improvements required to implement Alternative 3 are estimated to cost \$600,000. Alternative 3 requires the following improvements:

- Remove the traffic signal and railroad crossing devices at the intersection of Hill Street/Western Avenue,
- Construct a pedestrian crossing at the Hill Street/Western Avenue crossing to maintain pedestrian access between SW Main Street and SE Main Street,
- Upgrade 12 signalized intersections along Nash Street/Marigold Street and Hill Street/Western Avenue between George Street and Grace Street to accommodate two-way traffic,
- Upgrade the railroad protection devices (gates and flashers) at Nash Street/Marigold Street to accommodate two-way traffic,
- Remove the traffic signal at Hill Street and Washington Street,
- Reconstruct the intersection of George Street and Marigold Street to increase the turning radius for fire trucks turning right from George Street onto Marigold Street,
- Install pavement markings along Nash Street/Marigold Street and Hill Street/Western Avenue and upgrade pavement markings at signalized intersections from George Street to Grace Street in order to accommodate two-way traffic.

Due to the reduction in traffic on streets affect by the proposed closure of railroad crossings, it may be possible to remove the existing traffic signals at some intersections. Possible candidates for removal of traffic signals if the railroad crossings are closed include:

- Nash Street/Marigold Street at Main Street
- Marigold Street at Washington Street
- West Thomas Street at Pine Street and at Lee Street
- Hill Street/Western Avenue at Main Street

It is recommended, even though vehicular rail crossings may be closed, that pedestrian crossings of the railroad tracks be maintained and that the pedestrian crossings be designed to be safe and ADAA compliant.

APPENDICES

APPENDIX A:
CSX TRAIN INTERRUPTIONS

Train Preemption Summary

Tuesday, March 1 thru Monday, March 7, 2005

| Main St. & Marigold St./Nash St. | | | Hill St./Western Ave. & Main St. | | | Main St. & Sunset Ave./Tarboro St. | | | Main St. & Thomas St. & Washington St. | | | |
|----------------------------------|-----------|----------|----------------------------------|-----------|----------|------------------------------------|-----------|----------|--|-----------|----------|----------|
| # of preempts | Day | Duration | # of preempts | Started | Duration | # of preempts | Started | Duration | # of preempts | Started | Duration | |
| 38 | Tuesday | 1:37 | 38 | Tuesday | 1:58 | 38 | Tuesday | 1:47 | 35 | Tuesday | 1:42 | 7:04 |
| 43 | Wednesday | 2:14 | 43 | Wednesday | 2:28 | 43 | Wednesday | 2:29 | 41 | Wednesday | 2:18 | 9:29 |
| 49 | Thursday | 2:14 | 46 | Thursday | 2:36 | 46 | Thursday | 2:29 | 43 | Thursday | 2:30 | 9:49 |
| 42 | Friday | 1:59 | 49 | Friday | 2:21 | 41 | Friday | 2:04 | 37 | Friday | 2:01 | 8:25 |
| 42 | Saturday | 2:07 | 42 | Saturday | 2:24 | 42 | Saturday | 2:26 | 39 | Saturday | 2:25 | 9:22 |
| 40 | Sunday | 2:05 | 41 | Sunday | 2:20 | 39 | Sunday | 2:14 | 38 | Sunday | 2:06 | 8:45 |
| 36 | Monday | 1:42 | 36 | Monday | 1:56 | 36 | Monday | 1:53 | 34 | Monday | 1:48 | 7:19 |
| | | | | | | | | | | | | |
| 290 | | 13:58 | 295 | | 16:03 | 285 | | 15:22 | 267 | | 14:50 | 60:13:00 |

Tuesday, March 1, 2005

1:42

Train Preemption

Wednesday, March 2, 2005

| Main St. & Marigold St./Nash St. | | | | Hill St./Western Ave. & Main St. | | | | Main St. & Sunset Ave./Tarboro St. | | | | Main St. & Thomas St. & Washington St. | | | |
|-------------------------------------|---------|-------|----------|-------------------------------------|---------|-------|----------|---------------------------------------|---------|-------|----------|---|---------|-------|----------|
| # | Started | Ended | Duration | # | Started | Ended | Duration | # | Started | Ended | Duration | # | Started | Ended | Duration |
| 1 | 00:02 | 00:03 | 0:01 | 1 | 00:02 | 00:03 | 0:01 | 1 | 00:01 | 00:03 | 0:02 | 1 | 00:01 | 00:02 | 0:01 |
| 2 | 00:05 | 00:09 | 0:04 | 2 | 00:04 | 00:10 | 0:06 | 2 | 00:05 | 00:10 | 0:05 | 2 | 00:06 | 00:10 | 0:04 |
| 3 | 00:24 | 00:26 | 0:02 | 3 | 00:24 | 00:27 | 0:03 | 3 | 00:24 | 00:27 | 0:03 | 3 | 00:24 | 00:27 | 0:03 |
| 4 | 02:16 | 02:25 | 0:09 | 4 | 02:15 | 02:24 | 0:09 | 4 | 02:15 | 02:23 | 0:08 | 4 | 02:15 | 02:22 | 0:07 |
| 5 | 03:40 | 03:41 | 0:01 | 5 | 03:40 | 03:41 | 0:01 | 5 | 03:40 | 03:41 | 0:01 | 5 | 03:39 | 03:40 | 0:01 |
| 6 | 04:00 | 04:08 | 0:08 | 6 | 04:00 | 04:08 | 0:08 | 6 | 04:00 | 04:09 | 0:09 | 6 | 04:00 | 04:09 | 0:09 |
| 7 | 04:22 | 04:24 | 0:02 | 7 | 04:22 | 04:24 | 0:02 | 7 | 04:22 | 04:24 | 0:02 | 7 | 04:22 | 04:24 | 0:02 |
| 8 | 05:03 | 05:05 | 0:02 | 8 | 05:03 | 05:05 | 0:02 | 8 | 05:03 | 05:05 | 0:02 | 8 | 05:04 | 05:06 | 0:02 |
| 9 | 05:15 | 05:16 | 0:01 | 9 | 05:15 | 05:16 | 0:01 | 9 | 05:15 | 05:16 | 0:01 | 9 | 05:16 | 05:16 | 0:00 |
| 10 | 05:17 | 05:19 | 0:02 | 10 | 05:18 | 05:19 | 0:01 | 10 | 05:18 | 05:19 | 0:01 | 10 | 05:18 | 05:19 | 0:01 |
| 11 | 05:54 | 05:56 | 0:02 | 11 | 05:54 | 05:56 | 0:02 | 11 | 05:53 | 05:56 | 0:03 | 11 | 05:53 | 05:56 | 0:03 |
| 12 | 06:19 | 06:25 | 0:06 | 12 | 06:18 | 06:25 | 0:07 | 12 | 06:18 | 06:26 | 0:08 | 12 | 06:19 | 06:26 | 0:07 |
| 13 | 06:32 | 06:34 | 0:02 | 13 | 06:32 | 06:34 | 0:02 | 13 | 06:32 | 06:35 | 0:03 | 13 | 06:33 | 06:35 | 0:02 |
| 14 | 06:50 | 06:56 | 0:06 | 14 | 06:50 | 06:55 | 0:05 | 14 | 06:50 | 06:55 | 0:05 | 14 | 06:49 | 06:54 | 0:05 |
| 15 | 07:25 | 07:27 | 0:02 | 15 | 07:25 | 07:27 | 0:02 | 15 | 07:25 | 07:27 | 0:02 | 15 | 07:25 | 07:27 | 0:02 |
| 16 | 09:25 | 09:29 | 0:04 | 16 | 09:24 | 09:28 | 0:04 | 16 | 09:24 | 09:28 | 0:04 | 16 | 09:24 | 09:28 | 0:04 |
| 17 | 09:32 | 09:34 | 0:02 | 17 | 09:32 | 09:35 | 0:03 | 17 | 09:32 | 09:35 | 0:03 | 17 | 09:32 | 09:35 | 0:03 |
| 18 | 10:19 | 10:21 | 0:02 | 18 | 10:19 | 10:21 | 0:02 | 18 | 10:20 | 10:21 | 0:01 | 18 | 10:22 | 10:24 | 0:02 |
| 19 | 10:22 | 10:23 | 0:01 | 19 | 10:22 | 10:23 | 0:01 | 19 | 10:22 | 10:23 | 0:01 | | | | |
| 20 | 10:44 | 10:45 | 0:01 | | | | | 20 | 10:44 | 10:45 | 0:01 | 19 | 10:44 | 10:46 | 0:02 |
| 21 | 10:58 | 11:04 | 0:06 | 20 | 10:58 | 11:04 | 0:06 | 21 | 10:58 | 11:05 | 0:07 | 20 | 10:59 | 11:05 | 0:06 |
| 22 | 12:11 | 12:13 | 0:02 | 21 | 12:10 | 12:13 | 0:03 | 22 | 12:10 | 12:13 | 0:03 | 21 | 12:10 | 12:12 | 0:02 |
| | | | | 22 | 13:08 | 13:08 | 0:00 | | | | | | | | |
| 23 | 13:21 | 13:22 | 0:01 | 23 | 13:21 | 13:22 | 0:01 | 23 | 13:21 | 13:22 | 0:01 | | | | |
| 24 | 13:25 | 13:26 | 0:01 | 24 | 13:25 | 13:27 | 0:02 | 24 | 13:26 | 13:27 | 0:01 | 22 | 13:26 | 13:27 | 0:01 |
| 25 | 13:43 | 13:44 | 0:01 | 25 | 13:43 | 13:44 | 0:01 | 25 | 13:43 | 13:44 | 0:01 | | | | |
| 26 | 13:47 | 13:48 | 0:01 | 26 | 13:47 | 13:48 | 0:01 | 26 | 13:47 | 13:48 | 0:01 | 23 | 13:47 | 13:48 | 0:01 |
| 27 | 14:32 | 14:40 | 0:08 | 27 | 14:32 | 14:40 | 0:08 | 27 | 14:33 | 14:39 | 0:06 | 24 | 14:33 | 14:39 | 0:06 |
| 28 | 14:53 | 14:56 | 0:03 | 28 | 14:53 | 14:56 | 0:03 | 28 | 14:53 | 14:56 | 0:03 | 25 | 14:53 | 14:56 | 0:03 |
| 29 | 15:21 | 15:32 | 0:11 | 29 | 15:20 | 15:31 | 0:11 | 29 | 15:19 | 15:31 | 0:12 | 26 | 15:19 | 15:30 | 0:11 |
| 30 | 15:35 | 15:36 | 0:01 | 30 | 15:34 | 15:36 | 0:02 | 30 | 15:34 | 15:35 | 0:01 | 27 | 15:33 | 15:35 | 0:02 |
| 31 | 15:51 | 15:52 | 0:01 | 31 | 15:51 | 15:52 | 0:01 | 31 | 15:51 | 15:52 | 0:01 | 28 | 15:51 | 15:52 | 0:01 |
| 32 | 16:28 | 16:31 | 0:03 | 32 | 16:28 | 16:32 | 0:04 | 32 | 16:28 | 16:32 | 0:04 | 29 | 16:27 | 16:28 | 0:01 |
| | | | | | | | | | | | | 30 | 16:29 | 16:32 | 0:03 |
| 33 | 16:50 | 16:57 | 0:07 | 33 | 16:49 | 16:57 | 0:08 | 33 | 16:49 | 16:57 | 0:08 | 31 | 16:50 | 16:58 | 0:08 |
| 34 | 17:45 | 17:48 | 0:03 | 34 | 17:45 | 17:48 | 0:03 | 34 | 17:45 | 17:48 | 0:03 | 32 | 17:45 | 17:48 | 0:03 |
| 35 | 18:47 | 18:53 | 0:06 | 35 | 18:45 | 18:53 | 0:08 | 35 | 18:45 | 18:52 | 0:07 | 33 | 18:45 | 18:51 | 0:06 |
| 36 | 19:11 | 19:12 | 0:01 | 36 | 19:11 | 19:12 | 0:01 | 36 | 19:11 | 19:12 | 0:01 | 34 | 19:10 | 19:12 | 0:02 |
| 37 | 19:37 | 19:38 | 0:01 | 37 | 19:36 | 19:38 | 0:02 | 37 | 19:36 | 19:38 | 0:02 | 35 | 19:36 | 19:38 | 0:02 |
| 38 | 19:43 | 19:49 | 0:06 | 38 | 19:42 | 19:49 | 0:07 | 38 | 19:41 | 19:48 | 0:07 | 36 | 19:40 | 19:48 | 0:08 |
| 39 | 21:22 | 21:24 | 0:02 | 39 | 21:21 | 21:24 | 0:03 | 39 | 21:21 | 21:23 | 0:02 | 37 | 21:21 | 21:23 | 0:02 |
| 40 | 21:56 | 21:58 | 0:02 | 40 | 21:56 | 21:58 | 0:02 | 40 | 21:55 | 21:58 | 0:03 | 38 | 21:55 | 21:58 | 0:03 |
| 41 | 22:16 | 22:17 | 0:01 | 41 | 22:15 | 22:17 | 0:02 | 41 | 22:15 | 22:17 | 0:02 | 39 | 22:15 | 22:17 | 0:02 |
| 42 | 22:39 | 22:44 | 0:05 | 42 | 22:38 | 22:44 | 0:06 | 42 | 22:38 | 22:44 | 0:06 | 40 | 22:40 | 22:44 | 0:04 |
| 43 | 23:07 | 23:08 | 0:01 | 43 | 23:07 | 23:08 | 0:01 | 43 | 23:06 | 23:08 | 0:02 | 41 | 23:06 | 23:07 | 0:01 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | 2:14 | | | | 2:28 | | | | 2:29 | | | | 2:18 |

Train Preemption

Thursday, March 3, 2005

| Main St. & Marigold St./Nash St. | | | | Hill St./Western Ave. & Main St. | | | | Main St. & Sunset Ave./Tarboro St. | | | | Main St. & Thomas St. & Washington St. | | | |
|-------------------------------------|---------|-------|----------|-------------------------------------|---------|-------|----------|---------------------------------------|---------|-------|----------|---|---------|-------|----------|
| # | Started | Ended | Duration | # | Started | Ended | Duration | # | Started | Ended | Duration | # | Started | Ended | Duration |
| 1 | 00:58 | 01:01 | 0:03 | 1 | 00:58 | 01:01 | 0:03 | 1 | 00:58 | 01:01 | 0:03 | 1 | 00:59 | 01:02 | 0:03 |
| 2 | 01:32 | 01:37 | 0:05 | 2 | 01:31 | 01:37 | 0:06 | 2 | 01:30 | 01:36 | 0:06 | 2 | 01:30 | 01:36 | 0:06 |
| 3 | 01:46 | 01:51 | 0:05 | 3 | 01:45 | 01:50 | 0:05 | 3 | 01:45 | 01:50 | 0:05 | 3 | 01:44 | 01:49 | 0:05 |
| 4 | 02:24 | 02:27 | 0:03 | 4 | 02:22 | 02:27 | 0:05 | 4 | 02:22 | 02:26 | 0:04 | 4 | 02:20 | 02:26 | 0:06 |
| 5 | 02:46 | 02:48 | 0:02 | 5 | 02:46 | 02:48 | 0:02 | 5 | 02:46 | 02:48 | 0:02 | 5 | 02:46 | 02:48 | 0:02 |
| 6 | 03:41 | 03:43 | 0:02 | 6 | 03:40 | 03:43 | 0:03 | 6 | 03:40 | 03:43 | 0:03 | 6 | 03:40 | 03:42 | 0:02 |
| 7 | 04:49 | 04:52 | 0:03 | 7 | 04:49 | 04:52 | 0:03 | 7 | 04:49 | 04:52 | 0:03 | 7 | 04:49 | 04:52 | 0:03 |
| 8 | 05:06 | 05:10 | 0:04 | 8 | 05:05 | 05:10 | 0:05 | 8 | 05:05 | 05:09 | 0:04 | 8 | 05:05 | 05:09 | 0:04 |
| 9 | 05:31 | 05:33 | 0:02 | 9 | 05:31 | 05:33 | 0:02 | 9 | 05:31 | 05:33 | 0:02 | 9 | 05:31 | 05:33 | 0:02 |
| 10 | 07:03 | 07:06 | 0:03 | 10 | 07:03 | 07:06 | 0:03 | 10 | 07:03 | 07:06 | 0:03 | 10 | 07:04 | 07:06 | 0:02 |
| 11 | 07:13 | 07:16 | 0:03 | 11 | 07:13 | 07:16 | 0:03 | 11 | 07:13 | 07:16 | 0:03 | 11 | 07:14 | 07:17 | 0:03 |
| 12 | 07:32 | 07:36 | 0:04 | 12 | 07:32 | 07:36 | 0:04 | 12 | 07:33 | 07:36 | 0:03 | 12 | 07:33 | 07:36 | 0:03 |
| 13 | 07:46 | 07:50 | 0:04 | 13 | 07:46 | 07:50 | 0:04 | 13 | 07:46 | 07:51 | 0:05 | 13 | 07:46 | 07:51 | 0:05 |
| 14 | 08:50 | 08:51 | 0:01 | 14 | 08:49 | 08:52 | 0:03 | 14 | 08:50 | 08:52 | 0:02 | 14 | 08:50 | 08:52 | 0:02 |
| 15 | 09:34 | 09:36 | 0:02 | 15 | 09:34 | 09:36 | 0:02 | 15 | 09:34 | 09:36 | 0:02 | 15 | 09:33 | 09:35 | 0:02 |
| 16 | 10:09 | 10:14 | 0:05 | 16 | 10:07 | 10:14 | 0:07 | 16 | 10:07 | 10:14 | 0:07 | 16 | 10:06 | 10:13 | 0:07 |
| 17 | 10:32 | 10:38 | 0:06 | 17 | 10:31 | 10:38 | 0:07 | 17 | 10:31 | 10:38 | 0:07 | 17 | 10:32 | 10:39 | 0:07 |
| 18 | 10:48 | 10:50 | 0:02 | 18 | 10:48 | 10:50 | 0:02 | 18 | 10:48 | 10:51 | 0:03 | 18 | 10:49 | 10:51 | 0:02 |
| 19 | 11:11 | 11:15 | 0:04 | 19 | 11:10 | 11:15 | 0:05 | 19 | 11:11 | 11:15 | 0:04 | 19 | 11:11 | 11:16 | 0:05 |
| 20 | 11:27 | 11:28 | 0:01 | 20 | 11:27 | 11:44 | 0:17 | 20 | 11:27 | 11:43 | 0:16 | 20 | 11:25 | 11:42 | 0:17 |
| 21 | 11:30 | 11:44 | 0:14 | | | | | | | | | | | | |
| 22 | 11:45 | 11:45 | 0:00 | | | | | | | | | 21 | 11:42 | 11:43 | 0:01 |
| 23 | 12:13 | 12:17 | 0:04 | 21 | 12:13 | 12:17 | 0:04 | 21 | 12:13 | 12:17 | 0:04 | 22 | 12:13 | 12:17 | 0:04 |
| 24 | 12:36 | 12:39 | 0:03 | 22 | 12:35 | 12:39 | 0:04 | 22 | 12:35 | 12:38 | 0:03 | 23 | 12:34 | 12:38 | 0:04 |
| 25 | 12:40 | 12:41 | 0:01 | 23 | 12:39 | 12:41 | 0:02 | 23 | 12:39 | 12:40 | 0:01 | 24 | 12:38 | 12:40 | 0:02 |
| 26 | 13:20 | 13:21 | 0:01 | 24 | 13:20 | 13:21 | 0:01 | 24 | 13:20 | 13:21 | 0:01 | | | | |
| 27 | 13:25 | 13:26 | 0:01 | 25 | 13:25 | 13:26 | 0:01 | 25 | 13:25 | 13:33 | 0:08 | 25 | 13:25 | 13:32 | 0:07 |
| 28 | 13:28 | 13:34 | 0:06 | 26 | 13:27 | 13:33 | 0:06 | | | | | | | | |
| 29 | 13:45 | 13:46 | 0:01 | 27 | 13:45 | 13:46 | 0:01 | 26 | 13:45 | 13:46 | 0:01 | | | | |
| 30 | 13:48 | 13:49 | 0:01 | 28 | 13:48 | 13:50 | 0:02 | 27 | 13:49 | 13:50 | 0:01 | 26 | 13:49 | 13:50 | 0:01 |
| 31 | 13:54 | 13:55 | 0:01 | 29 | 13:54 | 13:55 | 0:01 | 28 | 13:54 | 13:55 | 0:01 | | | | |
| 32 | 13:56 | 13:57 | 0:01 | 30 | 13:56 | 13:57 | 0:01 | 29 | 13:56 | 13:57 | 0:01 | 27 | 13:56 | 13:58 | 0:02 |
| 33 | 14:53 | 14:54 | 0:01 | 31 | 14:53 | 14:54 | 0:01 | 30 | 14:53 | 14:54 | 0:01 | 28 | 14:52 | 14:54 | 0:02 |
| 34 | 15:23 | 15:23 | 0:00 | 32 | 15:22 | 15:23 | 0:01 | 31 | 15:22 | 15:23 | 0:01 | 29 | 15:22 | 15:23 | 0:01 |
| 35 | 15:44 | 15:47 | 0:03 | 33 | 15:44 | 15:47 | 0:03 | 32 | 15:44 | 15:48 | 0:04 | 30 | 15:45 | 15:48 | 0:03 |
| 36 | 16:19 | 16:21 | 0:02 | 34 | 16:19 | 16:27 | 0:08 | 33 | 16:19 | 16:21 | 0:02 | 31 | 16:19 | 16:21 | 0:02 |
| 37 | 16:22 | 16:27 | 0:05 | | | | | 34 | 16:21 | 16:27 | 0:06 | 32 | 16:22 | 16:28 | 0:06 |
| 38 | 16:52 | 16:53 | 0:01 | 35 | 16:52 | 16:53 | 0:01 | 35 | 16:52 | 16:53 | 0:01 | | | | |
| 39 | 16:54 | 16:55 | 0:01 | 36 | 16:54 | 16:56 | 0:02 | 36 | 16:54 | 16:56 | 0:02 | 33 | 16:54 | 16:56 | 0:02 |
| 40 | 18:47 | 18:49 | 0:02 | 37 | 18:47 | 18:48 | 0:01 | 37 | 18:47 | 18:48 | 0:01 | 34 | 18:46 | 18:48 | 0:02 |
| 41 | 19:08 | 19:10 | 0:02 | 38 | 19:07 | 19:10 | 0:03 | 38 | 19:07 | 19:10 | 0:03 | 35 | 19:07 | 19:10 | 0:03 |
| 42 | 19:34 | 19:38 | 0:04 | 39 | 19:32 | 19:37 | 0:05 | 39 | 19:32 | 19:37 | 0:05 | 36 | 19:31 | 19:36 | 0:05 |
| 43 | 19:53 | 19:56 | 0:03 | 40 | 19:53 | 19:56 | 0:03 | 40 | 19:53 | 19:55 | 0:02 | 37 | 19:53 | 19:55 | 0:02 |
| 44 | 20:10 | 20:12 | 0:02 | 41 | 20:10 | 20:12 | 0:02 | 41 | 20:10 | 20:12 | 0:02 | 38 | 20:10 | 20:12 | 0:02 |
| 45 | 20:41 | 20:42 | 0:01 | 42 | 20:40 | 20:42 | 0:02 | 42 | 20:40 | 20:41 | 0:01 | 39 | 20:40 | 20:41 | 0:01 |
| 46 | 23:02 | 23:03 | 0:01 | 43 | 23:02 | 23:03 | 0:01 | 43 | 23:02 | 23:03 | 0:01 | 40 | 23:01 | 23:02 | 0:01 |
| 47 | 23:26 | 23:27 | 0:01 | 44 | 23:26 | 23:28 | 0:02 | 44 | 23:26 | 23:28 | 0:02 | 41 | 23:26 | 23:28 | 0:02 |
| 48 | 23:36 | 23:39 | 0:03 | 45 | 23:35 | 23:38 | 0:03 | 45 | 23:35 | 23:38 | 0:03 | 42 | 23:34 | 23:38 | 0:04 |
| 49 | 23:49 | 23:53 | 0:04 | 46 | 23:49 | 23:53 | 0:04 | 46 | 23:49 | 23:53 | 0:04 | 43 | 23:50 | 23:53 | 0:03 |
| | | | | | | | | | | | | | | | |
| | | | 2:14 | | | | 2:36 | | | | 2:29 | | | | 2:30 |

Train Preemption

Friday, March 4, 2005

| Main St. & Marigold St./Nash St. | | | | Hill St./Western Ave. & Main St. | | | | Main St. & Sunset Ave./Tarboro St. | | | | Main St. & Thomas St. & Washington St. | | | |
|-------------------------------------|---------|-------|----------|-------------------------------------|---------|-------|----------|---------------------------------------|---------|-------|----------|---|---------|-------|----------|
| # | Started | Ended | Duration | # | Started | Ended | Duration | # | Started | Ended | Duration | # | Started | Ended | Duration |
| 1 | 01:02 | 01:07 | 0:05 | 1 | 01:01 | 01:08 | 0:07 | 1 | 01:02 | 01:08 | 0:06 | 1 | 01:03 | 01:08 | 0:05 |
| 2 | 01:54 | 01:56 | 0:02 | 2 | 01:54 | 01:56 | 0:02 | 2 | 01:54 | 01:56 | 0:02 | 2 | 01:53 | 01:56 | 0:03 |
| 3 | 02:12 | 02:19 | 0:07 | 3 | 02:12 | 02:18 | 0:06 | 3 | 02:12 | 02:17 | 0:05 | 3 | 02:12 | 02:16 | 0:04 |
| 4 | 04:04 | 04:06 | 0:02 | 4 | 04:04 | 04:06 | 0:02 | 4 | 04:04 | 04:06 | 0:02 | 4 | 04:04 | 04:07 | 0:03 |
| 5 | 04:15 | 04:17 | 0:02 | 5 | 04:15 | 04:17 | 0:02 | 5 | 04:15 | 04:17 | 0:02 | 5 | 04:15 | 04:17 | 0:02 |
| 6 | 04:28 | 04:30 | 0:02 | 6 | 04:28 | 04:30 | 0:02 | 6 | 04:28 | 04:30 | 0:02 | 6 | 04:28 | 04:30 | 0:02 |
| 7 | 04:49 | 04:51 | 0:02 | 7 | 04:49 | 05:00 | 0:11 | 7 | 04:49 | 05:00 | 0:11 | 7 | 04:49 | 05:00 | 0:11 |
| 8 | 04:53 | 05:00 | 0:07 | | | | | | | | | | | | |
| 9 | 05:08 | 05:09 | 0:01 | 8 | 05:08 | 05:09 | 0:01 | 8 | 05:08 | 05:09 | 0:01 | 8 | 05:09 | 05:09 | 0:00 |
| 10 | 05:12 | 05:13 | 0:01 | 9 | 05:12 | 05:14 | 0:02 | 9 | 05:12 | 05:14 | 0:02 | 9 | 05:13 | 05:14 | 0:01 |
| 11 | 07:20 | 07:24 | 0:04 | 10 | 07:19 | 07:24 | 0:05 | 10 | 07:20 | 07:25 | 0:05 | 10 | 07:21 | 07:25 | 0:04 |
| 12 | 07:36 | 07:39 | 0:03 | 11 | 07:36 | 07:39 | 0:03 | 11 | 07:36 | 07:39 | 0:03 | 11 | 07:36 | 07:42 | 0:06 |
| 13 | 07:41 | 07:43 | 0:02 | 12 | 07:40 | 07:43 | 0:03 | 12 | 07:40 | 07:43 | 0:03 | | | | |
| 14 | 08:02 | 08:03 | 0:01 | 13 | 08:02 | 08:03 | 0:01 | 13 | 08:02 | 08:03 | 0:01 | 12 | 08:02 | 08:03 | 0:01 |
| 15 | 09:40 | 09:46 | 0:06 | 14 | 09:38 | 09:45 | 0:07 | 14 | 09:38 | 09:45 | 0:07 | 13 | 09:36 | 09:45 | 0:09 |
| 16 | 10:18 | 10:23 | 0:05 | 15 | 10:18 | 10:23 | 0:05 | 15 | 10:18 | 10:23 | 0:05 | 14 | 10:19 | 10:23 | 0:04 |
| 17 | 11:47 | 11:49 | 0:02 | 16 | 11:46 | 11:49 | 0:03 | 16 | 11:46 | 11:48 | 0:02 | 15 | 11:46 | 11:48 | 0:02 |
| 18 | 12:01 | 12:03 | 0:02 | 17 | 12:01 | 12:03 | 0:02 | 17 | 12:02 | 12:03 | 0:01 | | | | |
| 19 | 12:05 | 12:06 | 0:01 | 18 | 12:05 | 12:06 | 0:01 | 18 | 12:05 | 12:06 | 0:01 | 16 | 12:05 | 12:06 | 0:01 |
| 20 | 12:10 | 12:11 | 0:01 | 19 | 12:10 | 12:11 | 0:01 | 19 | 12:10 | 12:11 | 0:01 | 17 | 12:10 | 12:11 | 0:01 |
| 21 | 13:10 | 13:11 | 0:01 | 20 | 13:10 | 13:11 | 0:01 | 20 | 13:10 | 13:11 | 0:01 | | | | |
| 22 | 13:14 | 13:15 | 0:01 | 21 | 13:14 | 13:15 | 0:01 | 21 | 13:14 | 13:15 | 0:01 | 18 | 13:14 | 13:15 | 0:01 |
| 23 | 13:34 | 13:35 | 0:01 | 22 | 13:33 | 13:35 | 0:02 | 22 | 13:33 | 13:35 | 0:02 | 19 | 13:34 | 13:35 | 0:01 |
| 24 | 13:41 | 13:42 | 0:01 | 23 | 13:41 | 13:42 | 0:01 | 23 | 13:41 | 13:42 | 0:01 | | | | |
| 25 | 13:44 | 13:45 | 0:01 | 24 | 13:44 | 13:45 | 0:01 | 24 | 13:44 | 13:45 | 0:01 | 20 | 13:44 | 13:46 | 0:02 |
| 26 | 14:11 | 14:12 | 0:01 | 25 | 14:11 | 14:12 | 0:01 | 25 | 14:10 | 14:12 | 0:02 | 21 | 14:10 | 14:11 | 0:01 |
| 27 | 14:49 | 14:50 | 0:01 | 26 | 14:49 | 14:50 | 0:01 | 26 | 14:49 | 14:50 | 0:01 | 22 | 14:49 | 14:50 | 0:01 |
| 28 | 15:04 | 15:10 | 0:06 | 27 | 15:04 | 15:10 | 0:06 | 27 | 15:04 | 15:09 | 0:05 | 23 | 15:03 | 15:08 | 0:05 |
| 29 | 15:31 | 15:34 | 0:03 | 28 | 15:31 | 15:34 | 0:03 | 28 | 15:31 | 15:34 | 0:03 | 24 | 15:31 | 15:34 | 0:03 |
| 30 | 15:52 | 15:52 | 0:00 | 29 | 15:51 | 15:52 | 0:01 | 29 | 15:51 | 15:52 | 0:01 | 25 | 15:51 | 15:52 | 0:01 |
| 31 | 16:56 | 16:58 | 0:02 | 30 | 16:55 | 16:58 | 0:03 | 30 | 16:55 | 16:57 | 0:02 | 26 | 16:55 | 16:57 | 0:02 |
| 32 | 17:35 | 17:44 | 0:09 | 31 | 17:34 | 17:43 | 0:09 | 31 | 17:34 | 17:42 | 0:08 | 27 | 17:34 | 17:41 | 0:07 |
| 33 | 18:20 | 18:23 | 0:03 | 32 | 18:20 | 18:23 | 0:03 | 32 | 18:20 | 18:22 | 0:02 | 28 | 18:19 | 18:22 | 0:03 |
| | | | | 33 | 18:28 | 18:28 | 0:00 | | | | | | | | |
| | | | | 34 | 18:29 | 18:29 | 0:00 | | | | | | | | |
| 34 | 18:49 | 18:50 | 0:01 | 35 | 18:48 | 18:49 | 0:01 | 33 | 18:48 | 18:49 | 0:01 | 29 | 18:48 | 18:49 | 0:01 |
| | | | | 36 | 18:51 | 18:52 | 0:01 | | | | | | | | |
| 35 | 19:11 | 19:13 | 0:02 | 37 | 19:11 | 19:13 | 0:02 | 34 | 19:11 | 19:12 | 0:01 | 30 | 19:10 | 19:12 | 0:02 |
| 36 | 19:18 | 19:25 | 0:07 | 38 | 19:17 | 19:26 | 0:09 | 35 | 19:18 | 19:25 | 0:07 | 31 | 19:18 | 19:26 | 0:08 |
| | | | | 39 | 19:37 | 19:38 | 0:01 | | | | | | | | |
| 37 | 20:04 | 20:05 | 0:01 | 40 | 20:03 | 20:05 | 0:02 | 36 | 20:03 | 20:05 | 0:02 | 32 | 20:03 | 20:05 | 0:02 |
| | | | | 41 | 20:05 | 20:06 | 0:01 | | | | | | | | |
| 38 | 20:34 | 20:39 | 0:05 | 42 | 20:32 | 20:39 | 0:07 | 37 | 20:32 | 20:39 | 0:07 | 33 | 20:31 | 20:38 | 0:07 |
| 39 | 21:25 | 21:34 | 0:09 | 43 | 21:25 | 21:35 | 0:10 | 38 | 21:25 | 21:34 | 0:09 | 34 | 21:26 | 21:35 | 0:09 |
| | | | | 44 | 21:35 | 21:37 | 0:02 | | | | | | | | |
| | | | | 45 | 21:47 | 21:47 | 0:00 | | | | | | | | |
| | | | | 46 | 21:48 | 21:48 | 0:00 | | | | | | | | |
| 40 | 22:49 | 22:52 | 0:03 | 47 | 22:49 | 22:52 | 0:03 | 39 | 22:50 | 22:52 | 0:02 | 35 | 22:50 | 22:52 | 0:02 |
| 41 | 23:00 | 23:01 | 0:01 | 48 | 23:00 | 23:01 | 0:01 | 40 | 23:00 | 23:01 | 0:01 | 36 | 22:59 | 23:01 | 0:02 |
| 42 | 23:44 | 23:46 | 0:02 | 49 | 23:44 | 23:46 | 0:02 | 41 | 23:44 | 23:46 | 0:02 | 37 | 23:44 | 23:46 | 0:02 |
| | | | 1:59 | | | | 2:21 | | | | 2:04 | | | | 2:01 |

Saturday, March 5, 2005

2:25

Sunday, March 6, 2005

| | |
|---------------|-----------|
| Western Ave & | Main St & |
|---------------|-----------|

| Main St. & Marigold St./Nash St. | | | | Hill St./Western Ave. & Main St. | | | | Main St. & Sunset Ave./Tarboro St. | | | | Main St. & Thomas St. & Washington St. | | | |
|----------------------------------|---------|-------|----------|----------------------------------|---------|-------|----------|------------------------------------|---------|-------|----------|--|---------|-------|----------|
| # | Started | Ended | Duration | # | Started | Ended | Duration | # | Started | Ended | Duration | # | Started | Ended | Duration |
| 1 | 01:35 | 01:38 | 0:03 | 1 | 01:34 | 01:38 | 0:04 | 1 | 01:34 | 01:38 | 0:04 | 1 | 01:33 | 01:38 | 0:05 |
| 2 | 01:56 | 01:57 | 0:01 | 2 | 01:56 | 01:57 | 0:01 | 2 | 01:56 | 01:57 | 0:01 | 2 | 01:56 | 01:57 | 0:01 |
| 3 | 02:04 | 02:07 | 0:03 | 3 | 02:04 | 02:07 | 0:03 | 3 | 02:04 | 02:07 | 0:03 | 3 | 02:05 | 02:07 | 0:02 |
| 4 | 02:48 | 02:51 | 0:03 | 4 | 02:48 | 02:51 | 0:03 | 4 | 02:48 | 02:51 | 0:03 | 4 | 02:49 | 02:52 | 0:03 |
| 5 | 02:55 | 03:03 | 0:08 | 5 | 02:54 | 03:02 | 0:08 | 5 | 02:54 | 03:02 | 0:08 | 5 | 02:53 | 03:01 | 0:08 |
| 6 | 03:20 | 03:23 | 0:03 | 6 | 03:20 | 03:23 | 0:03 | 6 | 03:20 | 03:23 | 0:03 | 6 | 03:20 | 03:23 | 0:03 |
| 7 | 03:39 | 03:41 | 0:02 | 7 | 03:39 | 03:41 | 0:02 | 7 | 03:39 | 03:41 | 0:02 | 7 | 03:40 | 03:42 | 0:02 |
| 8 | 05:09 | 05:11 | 0:02 | 8 | 05:09 | 05:11 | 0:02 | 8 | 05:09 | 05:11 | 0:02 | 8 | 05:09 | 05:11 | 0:02 |
| 9 | 05:35 | 05:39 | 0:04 | 9 | 05:35 | 05:39 | 0:04 | 9 | 05:35 | 05:39 | 0:04 | 9 | 05:36 | 05:39 | 0:03 |
| 10 | 05:44 | 05:45 | 0:01 | 10 | 05:44 | 05:45 | 0:01 | 10 | 05:44 | 05:45 | 0:01 | 10 | 05:45 | 05:45 | 0:00 |
| 11 | 05:47 | 05:49 | 0:02 | 11 | 05:48 | 05:49 | 0:01 | 11 | 05:48 | 05:49 | 0:01 | 11 | 05:48 | 05:49 | 0:01 |
| 12 | 07:23 | 07:30 | 0:07 | 12 | 07:22 | 07:30 | 0:08 | 12 | 07:22 | 07:30 | 0:08 | 12 | 07:21 | 07:29 | 0:08 |
| 13 | 07:36 | 07:38 | 0:02 | 13 | 07:36 | 07:38 | 0:02 | 13 | 07:36 | 07:38 | 0:02 | 13 | 07:36 | 07:38 | 0:02 |
| 14 | 08:05 | 08:09 | 0:04 | 14 | 08:05 | 08:10 | 0:05 | 14 | 08:05 | 08:10 | 0:05 | 14 | 08:06 | 08:10 | 0:04 |
| 15 | 08:27 | 08:32 | 0:05 | 15 | 08:26 | 08:31 | 0:05 | 15 | 08:26 | 08:31 | 0:05 | 15 | 08:26 | 08:30 | 0:04 |
| 16 | 08:47 | 08:49 | 0:02 | 16 | 08:46 | 08:49 | 0:03 | 16 | 08:47 | 08:49 | 0:02 | 16 | 08:47 | 08:49 | 0:02 |
| 17 | 09:06 | 09:09 | 0:03 | 17 | 09:06 | 09:09 | 0:03 | 17 | 09:06 | 09:09 | 0:03 | 17 | 09:05 | 09:08 | 0:03 |
| 18 | 09:50 | 09:52 | 0:02 | 18 | 09:48 | 09:52 | 0:04 | 18 | 09:48 | 09:51 | 0:03 | 18 | 09:47 | 09:51 | 0:04 |
| 19 | 10:11 | 10:13 | 0:02 | 19 | 10:11 | 10:13 | 0:02 | 19 | 10:11 | 10:13 | 0:02 | 19 | 10:11 | 10:14 | 0:03 |
| 20 | 10:28 | 10:29 | 0:01 | 20 | 10:28 | 10:29 | 0:01 | 20 | 10:28 | 10:29 | 0:01 | 20 | 10:29 | 10:29 | 0:00 |
| 21 | 10:32 | 10:33 | 0:01 | 21 | 10:33 | 10:34 | 0:01 | 21 | 10:33 | 10:34 | 0:01 | 21 | 10:33 | 10:34 | 0:01 |
| 22 | 10:53 | 10:59 | 0:06 | 22 | 10:52 | 10:59 | 0:07 | 22 | 10:53 | 10:59 | 0:06 | 22 | 10:54 | 10:59 | 0:05 |
| 23 | 13:20 | 13:21 | 0:01 | 23 | 13:20 | 13:21 | 0:01 | 23 | 13:21 | 13:21 | 0:00 | | | | |
| 24 | 13:24 | 13:25 | 0:01 | 24 | 13:24 | 13:25 | 0:01 | 24 | 13:24 | 13:25 | 0:01 | 23 | 13:24 | 13:26 | 0:02 |
| 25 | 13:35 | 13:36 | 0:01 | 25 | 13:35 | 13:36 | 0:01 | 25 | 13:35 | 13:36 | 0:01 | | | | |
| 26 | 13:37 | 13:38 | 0:01 | 26 | 13:37 | 13:38 | 0:01 | 26 | 13:38 | 13:39 | 0:01 | 24 | 13:38 | 13:39 | 0:01 |
| 27 | 14:17 | 14:27 | 0:10 | 27 | 14:17 | 14:27 | 0:10 | 27 | 14:18 | 14:27 | 0:09 | 25 | 14:18 | 14:28 | 0:10 |
| | | | | 28 | 14:37 | 14:38 | 0:01 | | | | | | | | |
| | | | | 29 | 14:59 | 15:00 | 0:01 | | | | | 26 | 14:59 | 15:00 | 0:01 |
| 28 | 15:23 | 15:24 | 0:01 | 30 | 15:23 | 15:24 | 0:01 | 28 | 15:22 | 15:24 | 0:02 | 27 | 15:22 | 15:23 | 0:01 |
| 29 | 15:38 | 15:43 | 0:05 | 31 | 15:36 | 15:43 | 0:07 | 29 | 15:36 | 15:43 | 0:07 | 28 | 15:35 | 15:42 | 0:07 |
| 30 | 15:53 | 15:57 | 0:04 | 32 | 15:53 | 15:56 | 0:03 | 30 | 15:52 | 15:56 | 0:04 | 29 | 15:52 | 15:55 | 0:03 |
| 31 | 17:12 | 17:19 | 0:07 | 33 | 17:12 | 17:20 | 0:08 | 31 | 17:12 | 17:20 | 0:08 | 30 | 17:13 | 17:20 | 0:07 |
| 32 | 17:33 | 17:35 | 0:02 | 34 | 17:32 | 17:35 | 0:03 | 32 | 17:32 | 17:35 | 0:03 | 31 | 17:32 | 17:35 | 0:03 |
| 33 | 17:47 | 17:51 | 0:04 | 35 | 17:46 | 17:54 | 0:08 | 33 | 17:46 | 17:54 | 0:08 | 32 | 17:47 | 17:54 | 0:07 |
| 34 | 17:51 | 17:54 | 0:03 | | | | | | | | | | | | |
| 35 | 18:26 | 18:28 | 0:02 | 36 | 18:26 | 18:27 | 0:01 | 34 | 18:26 | 18:27 | 0:01 | 33 | 18:26 | 18:27 | 0:01 |
| 36 | 20:04 | 20:10 | 0:06 | 37 | 20:03 | 20:11 | 0:08 | 35 | 20:04 | 20:11 | 0:07 | 34 | 20:05 | 20:11 | 0:06 |
| 37 | 20:55 | 20:57 | 0:02 | 38 | 20:55 | 20:57 | 0:02 | 36 | 20:54 | 20:57 | 0:03 | 35 | 20:54 | 20:56 | 0:02 |
| 38 | 21:07 | 21:10 | 0:03 | 39 | 21:07 | 21:11 | 0:04 | 37 | 21:07 | 21:11 | 0:04 | 36 | 21:08 | 21:11 | 0:03 |
| 39 | 22:00 | 22:04 | 0:04 | 40 | 22:00 | 22:04 | 0:04 | 38 | 22:00 | 22:04 | 0:04 | 37 | 21:59 | 22:04 | 0:05 |
| 40 | 22:41 | 22:42 | 0:01 | 41 | 22:40 | 22:42 | 0:02 | 39 | 22:40 | 22:41 | 0:01 | 38 | 22:40 | 22:41 | 0:01 |
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| | | | 2:05 | | | | 2:20 | | | | 2:14 | | | | 2:06 |

Monday, March 7, 2005

Monday, March 7, 2005

| Main St. & Marigold St./Nash St. | | | | Hill St./Western Ave. & Main St. | | | | Main St. & Sunset Ave./Tarboro St. | | | | Main St. & Thomas St. & Washington St. | | | |
|----------------------------------|---------|-------|----------|----------------------------------|---------|-------|----------|------------------------------------|---------|-------|----------|--|---------|-------|----------|
| # | Started | Ended | Duration | # | Started | Ended | Duration | # | Started | Ended | Duration | # | Started | Ended | Duration |
| 1 | 00:24 | 00:26 | 0:02 | 1 | 00:24 | 00:26 | 0:02 | 1 | 00:24 | 00:26 | 0:02 | 1 | 00:23 | 00:25 | 0:02 |
| 2 | 01:21 | 01:28 | 0:07 | 2 | 01:19 | 01:27 | 0:08 | 2 | 01:19 | 01:27 | 0:08 | 2 | 01:18 | 01:26 | 0:08 |
| 3 | 02:32 | 02:39 | 0:07 | 3 | 02:30 | 02:38 | 0:08 | 3 | 02:29 | 02:36 | 0:07 | 3 | 02:28 | 02:35 | 0:07 |
| 4 | 03:02 | 03:04 | 0:02 | 4 | 03:01 | 03:04 | 0:03 | 4 | 03:01 | 03:04 | 0:03 | 4 | 03:02 | 03:04 | 0:02 |
| 5 | 03:10 | 03:16 | 0:06 | 5 | 03:09 | 03:14 | 0:05 | 5 | 03:08 | 03:14 | 0:06 | 5 | 03:08 | 03:13 | 0:05 |
| 6 | 03:57 | 04:00 | 0:03 | 6 | 03:57 | 04:00 | 0:03 | 6 | 03:57 | 04:01 | 0:04 | 6 | 03:57 | 04:01 | 0:04 |
| 7 | 04:12 | 04:14 | 0:02 | 7 | 04:12 | 04:14 | 0:02 | 7 | 04:12 | 04:14 | 0:02 | 7 | 04:12 | 04:14 | 0:02 |
| 8 | 04:24 | 04:35 | 0:11 | 8 | 04:23 | 04:34 | 0:11 | 8 | 04:23 | 04:34 | 0:11 | 8 | 04:23 | 04:34 | 0:11 |
| 9 | 05:45 | 05:47 | 0:02 | 9 | 05:45 | 05:47 | 0:02 | 9 | 05:46 | 05:47 | 0:01 | 9 | 05:46 | 05:47 | 0:01 |
| 10 | 05:50 | 05:52 | 0:02 | 10 | 05:51 | 05:52 | 0:01 | 10 | 05:51 | 05:52 | 0:01 | 10 | 05:51 | 05:52 | 0:01 |
| 11 | 06:58 | 07:00 | 0:02 | 11 | 06:58 | 07:00 | 0:02 | 11 | 06:58 | 07:00 | 0:02 | 11 | 06:58 | 07:01 | 0:03 |
| 12 | 07:23 | 07:26 | 0:03 | 12 | 07:23 | 07:26 | 0:03 | 12 | 07:23 | 07:26 | 0:03 | 12 | 07:24 | 07:27 | 0:03 |
| 13 | 09:49 | 09:51 | 0:02 | 13 | 09:49 | 09:51 | 0:02 | 13 | 09:49 | 09:51 | 0:02 | 13 | 09:50 | 09:51 | 0:01 |
| 14 | 10:52 | 10:52 | 0:00 | | | | | 14 | 10:47 | 10:49 | 0:02 | 14 | 10:47 | 10:49 | 0:02 |
| 15 | 12:06 | 12:07 | 0:01 | 14 | 12:06 | 12:07 | 0:01 | 15 | 12:06 | 12:07 | 0:01 | 15 | 12:06 | 12:08 | 0:02 |
| 16 | 12:42 | 12:49 | 0:07 | 15 | 12:41 | 12:48 | 0:07 | 16 | 12:41 | 12:48 | 0:07 | 16 | 12:40 | 12:47 | 0:07 |
| 17 | 13:11 | 13:12 | 0:01 | 16 | 13:11 | 13:12 | 0:01 | 17 | 13:11 | 13:12 | 0:01 | | | | |
| 18 | 13:15 | 13:16 | 0:01 | 17 | 13:15 | 13:16 | 0:01 | 18 | 13:15 | 13:16 | 0:01 | 17 | 13:15 | 13:16 | 0:01 |
| 19 | 13:50 | 13:51 | 0:01 | 18 | 13:50 | 13:51 | 0:01 | 19 | 13:50 | 13:51 | 0:01 | | | | |
| 20 | 13:53 | 13:54 | 0:01 | 19 | 13:53 | 13:55 | 0:02 | 20 | 13:54 | 13:55 | 0:01 | 18 | 13:54 | 13:55 | 0:01 |
| | | | | 20 | 13:57 | 13:57 | 0:00 | | | | | | | | |
| 21 | 14:23 | 14:23 | 0:00 | 21 | 14:22 | 14:23 | 0:01 | 21 | 14:22 | 14:23 | 0:01 | 19 | 14:22 | 14:23 | 0:01 |
| 22 | 14:42 | 14:43 | 0:01 | 22 | 14:42 | 14:43 | 0:01 | 22 | 14:42 | 14:43 | 0:01 | | | | |
| 23 | 14:46 | 14:47 | 0:01 | 23 | 14:46 | 14:48 | 0:02 | 23 | 14:46 | 14:48 | 0:02 | 20 | 14:46 | 14:48 | 0:02 |
| 24 | 15:04 | 15:09 | 0:05 | 24 | 15:02 | 15:09 | 0:07 | 24 | 15:02 | 15:08 | 0:06 | 21 | 15:01 | 15:08 | 0:07 |
| 25 | 15:10 | 15:11 | 0:01 | 25 | 15:10 | 15:11 | 0:01 | 25 | 15:09 | 15:11 | 0:02 | 22 | 15:09 | 15:10 | 0:01 |
| 26 | 15:23 | 15:25 | 0:02 | 26 | 15:23 | 15:26 | 0:03 | 26 | 15:23 | 15:26 | 0:03 | 23 | 15:24 | 15:26 | 0:02 |
| 27 | 16:24 | 16:25 | 0:01 | 27 | 16:23 | 16:25 | 0:02 | 27 | 16:23 | 16:24 | 0:01 | 24 | 16:23 | 16:24 | 0:01 |
| 28 | 16:41 | 16:44 | 0:03 | 28 | 16:40 | 16:44 | 0:04 | 28 | 16:41 | 16:45 | 0:04 | 25 | 16:42 | 16:45 | 0:03 |
| 29 | 17:11 | 17:17 | 0:06 | 29 | 17:11 | 17:17 | 0:06 | 29 | 17:11 | 17:17 | 0:06 | 26 | 17:10 | 17:13 | 0:03 |
| | | | | | | | | | | | | 27 | 17:14 | 17:17 | 0:03 |
| 30 | 17:41 | 17:42 | 0:01 | 30 | 17:40 | 17:42 | 0:02 | 30 | 17:40 | 17:42 | 0:02 | 28 | 17:40 | 17:42 | 0:02 |
| 31 | 18:39 | 18:47 | 0:08 | 31 | 18:37 | 18:46 | 0:09 | 31 | 18:37 | 18:45 | 0:08 | 29 | 18:36 | 18:44 | 0:08 |
| 32 | 19:14 | 19:15 | 0:01 | 32 | 19:14 | 19:15 | 0:01 | 32 | 19:14 | 19:15 | 0:01 | 30 | 19:13 | 19:15 | 0:02 |
| 33 | 19:55 | 19:57 | 0:02 | 33 | 19:55 | 19:57 | 0:02 | 33 | 19:55 | 19:56 | 0:01 | 31 | 19:54 | 19:56 | 0:02 |
| 34 | 20:05 | 20:08 | 0:03 | 34 | 20:03 | 20:08 | 0:05 | 34 | 20:03 | 20:08 | 0:05 | 32 | 20:03 | 20:07 | 0:04 |
| 35 | 21:37 | 21:38 | 0:01 | 35 | 21:37 | 21:38 | 0:01 | 35 | 21:37 | 21:39 | 0:02 | 33 | 21:37 | 21:39 | 0:02 |
| 36 | 23:16 | 23:19 | 0:03 | 36 | 23:15 | 23:19 | 0:04 | 36 | 23:16 | 23:18 | 0:02 | 34 | 23:16 | 23:18 | 0:02 |
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APPENDIX B:
EXISTING (2003) TURNING MOVEMENT COUNTS
AND
AVERAGE ANNUAL DAILY TRAFFIC

Rocky Mount Downtown Circulation Study
Historical Average Daily Traffic Volumes

| Descript_1 | COUNT_YR1 | AADT_YR1 | COUNT_YR2 | AADT_YR2 | COUNT_YR3 | AADT_YR3 | COUNT_YR4 | AADT_YR4 | NAME_OF_RO | 2000_VOLUM | 2001_VOLUM | 2025_VOLUM |
|--|-----------|----------|-----------|----------|-----------|----------|-----------|----------|---------------|------------|------------|------------|
| Between Falls Rd & Aven St. on Grand Ave. | 1999 | 9500 | 1997 | 8100 | 1996 | 9300 | 1995 | 8100 | | 0 | 9400 | 0 |
| Between Albemarle Ave. & Main ST. on Grand Ave. | 1999 | 11000 | 1997 | 11000 | 1996 | 12000 | 1995 | 12000 | | 0 | 11000 | 0 |
| Between E Grand Ave. & E Highland Ave. on Atlanti | 1999 | 5300 | 1997 | 5000 | 1996 | 6700 | 1995 | 6700 | | 0 | 5200 | 0 |
| Church St. above Goldleaf St. | 1999 | 5100 | 1997 | 5000 | 1996 | 4900 | 1995 | 5400 | | 0 | 4200 | 0 |
| Between Thomas St. & Gay St. on Franklin St. | 1999 | 4400 | 1997 | 3500 | 1996 | 4000 | 1995 | 4300 | | 0 | 0 | 0 |
| Between Pearl St. & Franklin St. on Thomas St. | 1999 | 5500 | 1997 | 7500 | 1996 | 8000 | 1995 | 7700 | | 0 | 4900 | 0 |
| Between Church St. & Main St. on Thomas St. | 1999 | 4000 | 1997 | 4400 | 1996 | 4600 | 1995 | 5100 | | 0 | 3500 | 0 |
| Between Western Ave. & Sunset Ave. on Franklin St. | 1999 | 4700 | 1997 | 4100 | 1996 | 4500 | 1995 | 4800 | | 0 | 4500 | 0 |
| Between Main St. & Church St. on Tarboro St. | 1999 | 4500 | 1997 | 4800 | 1996 | 6000 | 1995 | 6000 | | 0 | 4400 | 0 |
| Between Western Ave. & Sunset Ave. on Church St. | 1999 | 5800 | 1997 | 5600 | 1996 | 7500 | 1995 | 7500 | | 0 | 5900 | 0 |
| Between Arlington St. & Washington St. on Hill St. | 1999 | 2600 | 1997 | 4200 | 1996 | 4100 | 1995 | 5200 | | 0 | 2400 | 0 |
| Between Eastern Ave. & Tarboro St. on Atlantic Ave | 1999 | 7600 | 1997 | 7200 | 1996 | 6800 | 1995 | 8000 | | 0 | 6400 | 0 |
| Arlington St. @ Raleigh St. | 1999 | 4400 | 1997 | 4500 | 1996 | 4600 | 1995 | 4600 | | 0 | 4900 | 0 |
| Below Rocky St. on Franklin St. | 1999 | 3300 | 1997 | 3100 | 1996 | 4300 | 1995 | 4300 | | 0 | 2700 | 0 |
| Nash County Railroad | 1997 | 3200 | 1996 | 4000 | 1995 | 4100 | 1994 | 4000 | Church St. | 3400 | 3500 | 5600 |
| Between Arlington St. & Washington St. on George S | 1999 | 12000 | 1997 | 12000 | 1996 | 12000 | 1995 | 12000 | | 0 | 1000 | 0 |
| Below George St. on Franklin St. | 1999 | 3600 | 1997 | 3900 | 1996 | 5000 | 1995 | 5200 | | 0 | 3100 | 0 |
| Between Grace St. & Pearl St. on George St. | 1999 | 10000 | 1997 | 11000 | 0 | 0 | 0 | 0 | | 0 | 1000 | 0 |
| Between Albemarle Ave. & Arlington St. on Tarboro | 1999 | 3800 | 1997 | 3400 | 0 | 0 | 0 | 0 | | 0 | 4300 | 0 |
| Below Nash St. on Franklin St. | 1999 | 4200 | 1997 | 3800 | 0 | 0 | 0 | 0 | | 0 | 3800 | 0 |
| Gay St. @ Grace St. | 1999 | 11000 | 1997 | 10000 | 0 | 0 | 0 | 0 | | 0 | 1100 | 0 |
| Between Main St. & Church St. on E Grand Ave. | 1996 | 12000 | 1994 | 11000 | 1993 | 12000 | 1983 | 12000 | | 0 | 1100 | 0 |
| Nash County Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Franklin St. | 3300 | 0 | 5500 |
| Nash County Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Pearl St. | 500 | 0 | 800 |
| Nash County Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Grace St. | 6900 | 0 | 11300 |
| CSX "A" LINE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | E. Grand Ave. | 11800 | 0 | 19400 |
| CSX "A" LINE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Goldleaf St. | 2500 | 0 | 3700 |
| CSX "A" LINE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Thomas St. | 4700 | 0 | 7800 |
| CSX "A" LINE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Sunset Ave. | 5100 | 0 | 8400 |
| CSX "A" LINE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Western Ave. | 4400 | 0 | 6400 |
| CSX "A" LINE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Nash St. | 2300 | 0 | 3400 |

**City of Rocky Mount
Engineering Dept.**

One Government Plaza File Name : Main St. & Marigold St.-Nash S

Rocky Mount, NC 27804 Site Code : 01421108

Start Date : 7/22/2003

Page No : 1

Groups Printed- Unshifted

| Start Time | SW Main St. Southbound | | | | | Westbound | | | | | SE Main St. Northbound | | | | | Marigold St. Eastbound | | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|------------------------|------|-------|------|------------|-----------|------|-------|------|------------|------------------------|------|-------|------|------------|------------------------|------|-------|------|------------|-------------|--------------|------------|
| | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | | | |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | | | |
| 07:00 AM | 2 | 4 | 0 | 1 | 6 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 2 | 0 | 5 | 1 | 0 | 6 | 4 | 14 | 18 |
| 07:15 AM | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 1 | 2 | 3 | 12 | 1 | 0 | 16 | 3 | 20 | 23 |
| 07:30 AM | 1 | 8 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 1 | 20 | 0 | 0 | 21 | 4 | 31 | 35 |
| 07:45 AM | 3 | 10 | 0 | 1 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 2 | 28 | 3 | 0 | 33 | 1 | 49 | 50 |
| Total | 6 | 24 | 0 | 2 | 30 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 6 | 7 | 8 | 6 | 65 | 5 | 0 | 76 | 12 | 114 | 126 |
| 08:00 AM | 5 | 10 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 2 | 20 | 7 | 0 | 29 | 0 | 48 | 48 |
| 08:15 AM | 2 | 15 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 3 | 2 | 15 | 0 | 0 | 17 | 1 | 37 | 38 |
| 08:30 AM | 2 | 8 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 | 16 | 1 | 0 | 19 | 0 | 31 | 31 |
| 08:45 AM | 2 | 14 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 7 | 2 | 22 | 1 | 0 | 25 | 0 | 48 | 48 |
| Total | 11 | 47 | 0 | 0 | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 5 | 1 | 16 | 8 | 73 | 9 | 0 | 90 | 1 | 164 | 165 |
| 11:00 AM | 5 | 12 | 0 | 1 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 5 | 2 | 1 | 20 | 3 | 0 | 24 | 6 | 43 | 49 |
| 11:15 AM | 10 | 19 | 0 | 2 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 5 | 4 | 13 | 2 | 0 | 19 | 4 | 53 | 57 |
| 11:30 AM | 16 | 21 | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 3 | 0 | 16 | 4 | 0 | 20 | 1 | 60 | 61 |
| 11:45 AM | 8 | 28 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 6 | 3 | 10 | 5 | 2 | 18 | 4 | 60 | 64 |
| Total | 39 | 80 | 0 | 3 | 119 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 10 | 16 | 8 | 59 | 14 | 2 | 81 | 15 | 216 | 231 |
| 12:00 PM | 12 | 17 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 3 | 22 | 0 | 0 | 25 | 0 | 58 | 58 |
| 12:15 PM | 9 | 15 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 5 | 6 | 26 | 0 | 0 | 32 | 1 | 61 | 62 |
| 12:30 PM | 9 | 15 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 4 | 1 | 22 | 1 | 0 | 24 | 3 | 52 | 55 |
| 12:45 PM | 12 | 12 | 0 | 1 | 24 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 3 | 8 | 19 | 3 | 0 | 30 | 2 | 57 | 59 |
| Total | 42 | 59 | 0 | 1 | 101 | 0 | 0 | 0 | 1 | 0 | 0 | 9 | 7 | 4 | 16 | 18 | 89 | 4 | 0 | 111 | 6 | 228 | 234 |
| 03:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| 04:00 PM | 5 | 18 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 6 | 29 | 1 | 0 | 36 | 0 | 61 | 61 |
| 04:15 PM | 14 | 14 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 4 | 24 | 0 | 0 | 28 | 2 | 58 | 60 |
| 04:30 PM | 11 | 10 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 29 | 5 | 1 | 36 | 1 | 58 | 59 |
| 04:45 PM | 8 | 10 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 5 | 1 | 32 | 3 | 0 | 36 | 0 | 59 | 59 |
| Total | 38 | 52 | 0 | 0 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 2 | 10 | 13 | 114 | 9 | 1 | 136 | 3 | 236 | 239 |
| 05:00 PM | 10 | 17 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 32 | 0 | 0 | 32 | 0 | 60 | 60 |
| 05:15 PM | 7 | 6 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 0 | 25 | 0 | 0 | 25 | 0 | 41 | 41 |
| 05:30 PM | 1 | 7 | 0 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 12 | 0 | 0 | 13 | 1 | 22 | 23 |
| 05:45 PM | 4 | 8 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 1 | 28 | 1 | 0 | 30 | 0 | 46 | 46 |
| Total | 22 | 38 | 0 | 1 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 0 | 9 | 2 | 97 | 1 | 0 | 100 | 1 | 169 | 170 |
| Grand Total | 158 | 300 | 0 | 7 | 458 | 0 | 0 | 0 | 4 | 0 | 0 | 39 | 39 | 24 | 78 | 55 | 497 | 42 | 3 | 594 | 38 | 1130 | 1168 |
| Apprch % | 34.5 | 65.5 | 0.0 | | | 0.0 | 0.0 | 0.0 | | | 0.0 | 50.0 | 50.0 | | | 9.3 | 83.7 | 7.1 | | | | | |
| Total % | 14.0 | 26.5 | 0.0 | | 40.5 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 3.5 | 3.5 | | 6.9 | 4.9 | 44.0 | 3.7 | | 52.6 | 3.3 | 96.7 | |

**City of Rocky Mount
Engineering Dept.**

One Government Plaza File Name : Main St. & Marigold St.-Nash S
Rocky Mount, NC 27804 Site Code : 01421108
Start Date : 7/22/2003
Page No : 2

| | SW Main St. Southbound | | | | Westbound | | | | SE Main St. Northbound | | | | Marigold St. Eastbound | | | | |
|---|---------------------------|------|-------|---------------|------------|------|-------|---------------|---------------------------|------|-------|---------------|---------------------------|------|-------|---------------|---------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 07:30 AM | | | | | | | | | | | | | | | | 165 |
| Volume | 11 | 43 | 0 | 54 | 0 | 0 | 0 | 0 | 0 | 7 | 4 | 11 | 7 | 83 | 10 | 100 | |
| Percent | 20.4 | 79.6 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 63.6 | 36.4 | | 7.0 | 83.0 | 10.0 | | |
| 07:45 | | | | | | | | | | | | | | | | | |
| Volume | 3 | 10 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 2 | 28 | 3 | 33 | |
| Peak Factor | | | | | | | | | | | | | | | | | 0.842 |
| High Int. | 08:15 AM | | | | 6:45:00 AM | | | | 08:00 AM | | | | 07:45 AM | | | | |
| Volume | 2 | 15 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 | 2 | 28 | 3 | 33 | |
| Peak Factor | 0.794 | | | | | | | | 0.688 | | | | 0.758 | | | | |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 08:00 AM | | | | 07:00 AM | | | | 08:00 AM | | | | 07:30 AM | | | | |
| Volume | 11 | 47 | 0 | 58 | 0 | 0 | 0 | 0 | 0 | 11 | 5 | 16 | 7 | 83 | 10 | 100 | |
| Percent | 19.0 | 81.0 | 0.0 | | - | - | - | | 0.0 | 68.8 | 31.3 | | 7.0 | 83.0 | 10.0 | | |
| High Int. | 08:15 AM | | | | - | | | | 08:45 AM | | | | 07:45 AM | | | | |
| Volume | 2 | 15 | 0 | 17 | - | - | - | - | 0 | 3 | 4 | 7 | 2 | 28 | 3 | 33 | |
| Peak Factor | 0.853 | | | | - | | | | 0.571 | | | | 0.758 | | | | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 11:30 AM | | | | | | | | | | | | | | | | 239 |
| Volume | 45 | 81 | 0 | 126 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 18 | 12 | 74 | 9 | 95 | |
| Percent | 35.7 | 64.3 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 50.0 | 50.0 | | 12.6 | 77.9 | 9.5 | | |
| 12:15 | | | | | | | | | | | | | | | | | |
| Volume | 9 | 15 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 5 | 6 | 26 | 0 | 32 | |
| Peak Factor | | | | | | | | | | | | | | | | | 0.980 |
| High Int. | 11:30 AM | | | | | | | | 11:45 AM | | | | 12:15 PM | | | | |
| Volume | 16 | 21 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 6 | 6 | 26 | 0 | 32 | |
| Peak Factor | 0.851 | | | | | | | | 0.750 | | | | 0.742 | | | | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 11:15 AM | | | | 11:00 AM | | | | 11:45 AM | | | | 12:00 PM | | | | |
| Volume | 46 | 85 | 0 | 131 | 0 | 0 | 0 | 0 | 0 | 10 | 9 | 19 | 18 | 89 | 4 | 111 | |
| Percent | 35.1 | 64.9 | 0.0 | | - | - | - | | 0.0 | 52.6 | 47.4 | | 16.2 | 80.2 | 3.6 | | |
| High Int. | 11:30 AM | | | | - | | | | 11:45 AM | | | | 12:15 PM | | | | |
| Volume | 16 | 21 | 0 | 37 | - | - | - | - | 0 | 3 | 3 | 6 | 6 | 26 | 0 | 32 | |
| Peak Factor | 0.885 | | | | - | | | | 0.792 | | | | 0.867 | | | | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 04:00 PM | | | | | | | | | | | | | | | | 236 |
| Volume | 38 | 52 | 0 | 90 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 10 | 13 | 114 | 9 | 136 | |
| Percent | 42.2 | 57.8 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 20.0 | 80.0 | | 9.6 | 83.8 | 6.6 | | |
| 04:00 | | | | | | | | | | | | | | | | | |
| Volume | 5 | 18 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 6 | 29 | 1 | 36 | |
| Peak Factor | | | | | | | | | | | | | | | | | 0.967 |
| High Int. | 04:15 PM | | | | | | | | 04:45 PM | | | | 04:00 PM | | | | |
| Volume | 14 | 14 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 5 | 6 | 29 | 1 | 36 | |
| Peak Factor | 0.804 | | | | | | | | 0.500 | | | | 0.944 | | | | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 04:15 PM | | | | 04:00 PM | | | | 04:00 PM | | | | 04:00 PM | | | | |
| Volume | 43 | 51 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 10 | 13 | 114 | 9 | 136 | |
| Percent | 45.7 | 54.3 | 0.0 | | - | - | - | | 0.0 | 20.0 | 80.0 | | 9.6 | 83.8 | 6.6 | | |
| High Int. | 04:15 PM | | | | - | | | | 04:45 PM | | | | 04:00 PM | | | | |
| Volume | 14 | 14 | 0 | 28 | - | - | - | - | 0 | 2 | 3 | 5 | 6 | 29 | 1 | 36 | |
| Peak Factor | 0.839 | | | | - | | | | 0.500 | | | | 0.944 | | | | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : Church St. & Falls Rd
Site Code : 01420110
Start Date : 5/21/2003
Page No : 1

Groups Printed- Unshifted

| Start Time | Southbound | | | | Falls Rd. Westbound | | | | Church St. Northbound | | | | Falls Rd. Eastbound | | | | Int. Total |
|-------------|------------|------|-------|---------------|------------------------|------|-------|---------------|--------------------------|------|-------|---------------|------------------------|------|-------|---------------|---------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| Factor | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 8 | 2 | 10 | 13 | 33 | 1 | 47 | 1 | 7 | 0 | 8 | 65 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 9 | 1 | 10 | 10 | 34 | 1 | 45 | 0 | 8 | 0 | 8 | 63 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 15 | 5 | 20 | 15 | 40 | 0 | 55 | 0 | 12 | 0 | 12 | 87 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 15 | 7 | 22 | 22 | 37 | 3 | 62 | 0 | 10 | 0 | 10 | 94 |
| Total | 0 | 0 | 0 | 0 | 0 | 47 | 15 | 62 | 60 | 144 | 5 | 209 | 1 | 37 | 0 | 38 | 309 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 14 | 16 | 53 | 0 | 69 | 0 | 11 | 0 | 11 | 94 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 9 | 4 | 13 | 20 | 37 | 3 | 60 | 0 | 12 | 0 | 12 | 85 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 7 | 5 | 12 | 32 | 31 | 1 | 64 | 1 | 11 | 0 | 12 | 88 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 6 | 21 | 37 | 0 | 58 | 0 | 0 | 0 | 0 | 64 |
| Total | 0 | 0 | 0 | 0 | 0 | 27 | 18 | 45 | 89 | 158 | 4 | 251 | 1 | 34 | 0 | 35 | 331 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 23 | 39 | 0 | 62 | 0 | 5 | 0 | 5 | 74 |
| 11:15 AM | 0 | 0 | 0 | 0 | 0 | 17 | 2 | 19 | 24 | 47 | 0 | 71 | 1 | 5 | 0 | 6 | 96 |
| 11:30 AM | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 9 | 42 | 55 | 0 | 97 | 2 | 12 | 0 | 14 | 120 |
| 11:45 AM | 0 | 0 | 0 | 0 | 0 | 19 | 1 | 20 | 40 | 39 | 0 | 79 | 2 | 11 | 0 | 13 | 112 |
| Total | 0 | 0 | 0 | 0 | 0 | 50 | 5 | 55 | 129 | 180 | 0 | 309 | 5 | 33 | 0 | 38 | 402 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 20 | 2 | 22 | 50 | 45 | 0 | 95 | 1 | 3 | 0 | 4 | 121 |
| 12:15 PM | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 11 | 50 | 40 | 0 | 90 | 0 | 4 | 0 | 4 | 105 |
| 12:30 PM | 0 | 0 | 0 | 0 | 0 | 7 | 4 | 11 | 23 | 41 | 2 | 66 | 3 | 11 | 0 | 14 | 91 |
| 12:45 PM | 0 | 0 | 0 | 0 | 0 | 12 | 2 | 14 | 48 | 45 | 0 | 93 | 3 | 16 | 0 | 19 | 126 |
| Total | 0 | 0 | 0 | 0 | 0 | 47 | 11 | 58 | 171 | 171 | 2 | 344 | 7 | 34 | 0 | 41 | 443 |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 19 | 5 | 24 | 24 | 55 | 5 | 84 | 0 | 10 | 0 | 10 | 118 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 20 | 5 | 25 | 42 | 59 | 0 | 101 | 1 | 19 | 0 | 20 | 146 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 15 | 4 | 19 | 44 | 41 | 2 | 87 | 3 | 18 | 0 | 21 | 127 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 18 | 1 | 19 | 41 | 58 | 0 | 99 | 0 | 11 | 0 | 11 | 129 |
| Total | 0 | 0 | 0 | 0 | 0 | 72 | 15 | 87 | 151 | 213 | 7 | 371 | 4 | 58 | 0 | 62 | 520 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 16 | 6 | 22 | 65 | 98 | 3 | 166 | 1 | 4 | 0 | 5 | 193 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 23 | 6 | 29 | 46 | 56 | 0 | 102 | 1 | 19 | 0 | 20 | 151 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 12 | 42 | 48 | 2 | 92 | 1 | 12 | 0 | 13 | 117 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 33 | 39 | 0 | 72 | 0 | 13 | 0 | 13 | 92 |
| Total | 0 | 0 | 0 | 0 | 0 | 58 | 12 | 70 | 186 | 241 | 5 | 432 | 3 | 48 | 0 | 51 | 553 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 301 | 76 | 377 | 786 | 1107 | 23 | 1916 | 21 | 244 | 0 | 265 | 2558 |
| Apprch % | 0.0 | 0.0 | 0.0 | | 0.0 | 79.8 | 20.2 | | 41.0 | 57.8 | 1.2 | | 7.9 | 92.1 | 0.0 | | |
| Total % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.8 | 3.0 | 14.7 | 30.7 | 43.3 | 0.9 | 74.9 | 0.8 | 9.5 | 0.0 | 10.4 | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : Church St. & Falls Rd
Site Code : 01420110
Start Date : 5/21/2003
Page No : 2

| | Southbound | | | | Falls Rd. Westbound | | | | Church St. Northbound | | | | Falls Rd. Eastbound | | | | |
|---|------------|------|-------|---------------|------------------------|------|-------|---------------|--------------------------|------|-------|---------------|------------------------|-------|-------|---------------|---------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection 07:45 AM | | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 38 | 23 | 61 | 90 | 158 | 7 | 255 | 1 | 44 | 0 | 45 | 361 |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 62.3 | 37.7 | | 35.3 | 62.0 | 2.7 | | 2.2 | 97.8 | 0.0 | | |
| 08:00 | | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 14 | 16 | 53 | 0 | 69 | 0 | 11 | 0 | 11 | 94 |
| Peak Factor | | | | | | | | | | | | | | | | | 0.960 |
| High Int. 6:45:00 AM | | | | | 07:45 AM | | | | 08:00 AM | | | | 08:15 AM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 15 | 7 | 22 | 16 | 53 | 0 | 69 | 0 | 12 | 0 | 12 | |
| Peak Factor | | | | | | | | 0.693 | | | | 0.924 | | | | 0.938 | |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach 07:00 AM | | | | | 07:30 AM | | | | 07:45 AM | | | | 07:30 AM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 46 | 23 | 69 | 90 | 158 | 7 | 255 | 0 | 45 | 0 | 45 | |
| Percent | - | - | - | | 0.0 | 66.7 | 33.3 | | 35.3 | 62.0 | 2.7 | | 0.0 | 100.0 | 0.0 | | |
| High Int. - | | | | | 07:45 AM | | | | 08:00 AM | | | | 07:30 AM | | | | |
| Volume | - | - | - | - | 0 | 15 | 7 | 22 | 16 | 53 | 0 | 69 | 0 | 12 | 0 | 12 | |
| Peak Factor | - | - | - | - | | | | 0.784 | | | | 0.924 | | | | 0.938 | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection 11:30 AM | | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 54 | 8 | 62 | 182 | 179 | 0 | 361 | 5 | 30 | 0 | 35 | 458 |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 87.1 | 12.9 | | 50.4 | 49.6 | 0.0 | | 14.3 | 85.7 | 0.0 | | |
| 12:00 | | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 20 | 2 | 22 | 50 | 45 | 0 | 95 | 1 | 3 | 0 | 4 | 121 |
| Peak Factor | | | | | | | | | | | | | | | | | 0.946 |
| High Int. - | | | | | 12:00 PM | | | | 11:30 AM | | | | 11:30 AM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 20 | 2 | 22 | 42 | 55 | 0 | 97 | 2 | 12 | 0 | 14 | |
| Peak Factor | | | | | | | | 0.705 | | | | 0.930 | | | | 0.625 | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach 11:00 AM | | | | | 11:15 AM | | | | 11:30 AM | | | | 12:00 PM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 63 | 7 | 70 | 182 | 179 | 0 | 361 | 7 | 34 | 0 | 41 | |
| Percent | - | - | - | | 0.0 | 90.0 | 10.0 | | 50.4 | 49.6 | 0.0 | | 17.1 | 82.9 | 0.0 | | |
| High Int. - | | | | | 12:00 PM | | | | 11:30 AM | | | | 12:45 PM | | | | |
| Volume | - | - | - | - | 0 | 20 | 2 | 22 | 42 | 55 | 0 | 97 | 3 | 16 | 0 | 19 | |
| Peak Factor | - | - | - | - | | | | 0.795 | | | | 0.930 | | | | 0.539 | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection 04:30 PM | | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 72 | 17 | 89 | 196 | 253 | 5 | 454 | 5 | 52 | 0 | 57 | 600 |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 80.9 | 19.1 | | 43.2 | 55.7 | 1.1 | | 8.8 | 91.2 | 0.0 | | |
| 05:00 | | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 16 | 6 | 22 | 65 | 98 | 3 | 166 | 1 | 4 | 0 | 5 | 193 |
| Peak Factor | | | | | | | | | | | | | | | | | 0.777 |
| High Int. - | | | | | 05:15 PM | | | | 05:00 PM | | | | 04:30 PM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 23 | 6 | 29 | 65 | 98 | 3 | 166 | 3 | 18 | 0 | 21 | |
| Peak Factor | | | | | | | | 0.767 | | | | 0.684 | | | | 0.679 | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach 04:00 PM | | | | | 04:30 PM | | | | 04:45 PM | | | | 04:00 PM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 72 | 17 | 89 | 194 | 260 | 5 | 459 | 4 | 58 | 0 | 62 | |
| Percent | - | - | - | | 0.0 | 80.9 | 19.1 | | 42.3 | 56.6 | 1.1 | | 6.5 | 93.5 | 0.0 | | |
| High Int. - | | | | | 05:15 PM | | | | 05:00 PM | | | | 04:30 PM | | | | |
| Volume | - | - | - | - | 0 | 23 | 6 | 29 | 65 | 98 | 3 | 166 | 3 | 18 | 0 | 21 | |
| Peak Factor | - | - | - | - | | | | 0.767 | | | | 0.691 | | | | 0.738 | |

City of Rocky Mount

Engineering Dept.

One Government Plaza Name : Cokey Rd. & George St. & Tarboro St
 Rocky Mount, NC 27804 Code : 01421145

Start Date : 7/2/2003

Page No : 1

Groups Printed- 1 - Unshifted

| Start Time | George St. Southbound | | | | Tarboro St. Westbound | | | | George St. Northbound | | | | Tarboro St. Eastbound | | | | | Int. Total |
|-------------|-----------------------|----------|------|------------|-----------------------|------|-------|------------|-----------------------|-----------|------------|------------|-----------------------|----------------|--------------|-------|------------|------------|
| | Near Left | Far Left | Thru | App. Total | Left | Thru | Right | App. Total | Thru | Far Right | Near Right | App. Total | Left | Thru - Tarboro | Thru - Cokey | Right | App. Total | |
| Factor | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | |
| 07:00 AM | 2 | 3 | 25 | 30 | 3 | 0 | 0 | 3 | 18 | 5 | 2 | 25 | 7 | 9 | 14 | 0 | 30 | 88 |
| 07:15 AM | 0 | 8 | 24 | 32 | 8 | 0 | 4 | 12 | 54 | 3 | 1 | 58 | 7 | 7 | 21 | 2 | 37 | 139 |
| 07:30 AM | 0 | 10 | 44 | 54 | 11 | 0 | 7 | 18 | 45 | 8 | 1 | 54 | 3 | 0 | 12 | 2 | 17 | 143 |
| 07:45 AM | 0 | 4 | 28 | 32 | 7 | 0 | 4 | 11 | 53 | 4 | 1 | 58 | 8 | 5 | 32 | 2 | 47 | 148 |
| Total | 2 | 25 | 121 | 148 | 29 | 0 | 15 | 44 | 170 | 20 | 5 | 195 | 25 | 21 | 79 | 6 | 131 | 518 |
| 08:00 AM | 2 | 5 | 31 | 38 | 21 | 0 | 5 | 26 | 53 | 7 | 4 | 64 | 4 | 6 | 14 | 6 | 30 | 158 |
| 08:15 AM | 3 | 11 | 38 | 52 | 2 | 0 | 0 | 2 | 11 | 1 | 1 | 13 | 6 | 3 | 12 | 1 | 22 | 89 |
| 08:30 AM | 1 | 4 | 40 | 45 | 23 | 0 | 16 | 39 | 74 | 17 | 3 | 94 | 13 | 10 | 19 | 2 | 44 | 222 |
| 08:45 AM | 1 | 9 | 42 | 52 | 18 | 0 | 6 | 24 | 69 | 11 | 2 | 82 | 9 | 8 | 12 | 8 | 37 | 195 |
| Total | 7 | 29 | 151 | 187 | 64 | 0 | 27 | 91 | 207 | 36 | 10 | 253 | 32 | 27 | 57 | 17 | 133 | 664 |
| 11:00 AM | 10 | 7 | 49 | 66 | 8 | 0 | 11 | 19 | 46 | 9 | 0 | 55 | 17 | 29 | 26 | 6 | 78 | 218 |
| 11:15 AM | 3 | 8 | 37 | 48 | 13 | 0 | 10 | 23 | 58 | 12 | 1 | 71 | 19 | 10 | 13 | 5 | 47 | 189 |
| 11:30 AM | 3 | 7 | 31 | 41 | 14 | 0 | 4 | 18 | 37 | 8 | 1 | 46 | 9 | 9 | 10 | 4 | 32 | 137 |
| 11:45 AM | 0 | 8 | 46 | 54 | 9 | 0 | 11 | 20 | 70 | 11 | 1 | 82 | 23 | 17 | 15 | 3 | 58 | 214 |
| Total | 16 | 30 | 163 | 209 | 44 | 0 | 36 | 80 | 211 | 40 | 3 | 254 | 68 | 65 | 64 | 18 | 215 | 758 |
| 12:00 PM | 0 | 11 | 40 | 51 | 15 | 0 | 16 | 31 | 54 | 9 | 4 | 67 | 18 | 11 | 17 | 7 | 53 | 202 |
| 12:15 PM | 0 | 5 | 38 | 43 | 10 | 0 | 8 | 18 | 73 | 9 | 4 | 86 | 30 | 13 | 38 | 4 | 85 | 232 |
| 12:30 PM | 0 | 5 | 39 | 44 | 11 | 0 | 10 | 21 | 51 | 10 | 1 | 62 | 18 | 14 | 13 | 6 | 51 | 178 |
| 12:45 PM | 2 | 6 | 29 | 37 | 14 | 0 | 13 | 27 | 59 | 16 | 4 | 79 | 9 | 13 | 25 | 2 | 49 | 192 |
| Total | 2 | 27 | 146 | 175 | 50 | 0 | 47 | 97 | 237 | 44 | 13 | 294 | 75 | 51 | 93 | 19 | 238 | 804 |
| 04:00 PM | 0 | 9 | 27 | 36 | 7 | 0 | 9 | 16 | 143 | 14 | 4 | 161 | 34 | 23 | 30 | 7 | 94 | 307 |
| 04:15 PM | 2 | 12 | 59 | 73 | 16 | 0 | 15 | 31 | 169 | 22 | 5 | 196 | 19 | 20 | 23 | 2 | 64 | 364 |
| 04:30 PM | 0 | 9 | 84 | 93 | 21 | 0 | 7 | 28 | 209 | 14 | 0 | 223 | 24 | 18 | 39 | 12 | 93 | 437 |
| 04:45 PM | 0 | 11 | 40 | 51 | 34 | 0 | 33 | 67 | 175 | 9 | 1 | 185 | 18 | 22 | 22 | 3 | 65 | 368 |
| Total | 2 | 41 | 210 | 253 | 78 | 0 | 64 | 142 | 696 | 59 | 10 | 765 | 95 | 83 | 114 | 24 | 316 | 1476 |
| 05:00 PM | 0 | 5 | 44 | 49 | 13 | 0 | 11 | 24 | 94 | 8 | 0 | 102 | 45 | 32 | 37 | 8 | 122 | 297 |
| 05:15 PM | 1 | 9 | 44 | 54 | 34 | 0 | 25 | 59 | 103 | 11 | 5 | 119 | 47 | 17 | 49 | 9 | 122 | 354 |
| 05:30 PM | 1 | 8 | 40 | 49 | 18 | 0 | 10 | 28 | 77 | 16 | 2 | 95 | 19 | 24 | 21 | 4 | 68 | 240 |
| 05:45 PM | 6 | 28 | 82 | 116 | 39 | 0 | 5 | 44 | 86 | 13 | 2 | 101 | 37 | 27 | 40 | 7 | 111 | 372 |
| Total | 8 | 50 | 210 | 268 | 104 | 0 | 51 | 155 | 360 | 48 | 9 | 417 | 148 | 100 | 147 | 28 | 423 | 1263 |
| Grand Total | 37 | 202 | 1001 | 1240 | 369 | 0 | 240 | 609 | 1881 | 247 | 50 | 2178 | 443 | 347 | 554 | 112 | 1456 | 5483 |
| Apprch % | 3.0 | 16.3 | 80.7 | | 60.6 | 0.0 | 39.4 | | 86.4 | 11.3 | 2.3 | | 30.4 | 23.8 | 38.0 | 7.7 | | |
| Total % | 0.7 | 3.7 | 18.3 | 22.6 | 6.7 | 0.0 | 4.4 | 11.1 | 34.3 | 4.5 | 0.9 | 39.7 | 8.1 | 6.3 | 10.1 | 2.0 | 26.6 | |

City of Rocky Mount

Engineering Dept.

One Government Plaza Name : Cokey Rd. & George St. & Tarboro St

Rocky Mount, NC 27804 Code : 01421145

Start Date : 7/2/2003

Page No : 2

| | George St. Southbound | | | | Tarboro St. Westbound | | | | George St. Northbound | | | | Tarboro St. Eastbound | | | | | |
|---|--------------------------|-------------|------|---------------|--------------------------|------|-------|---------------|--------------------------|--------------|---------------|---------------|--------------------------|----------------------|--------------------|-------|---------------|---------------|
| Start Time | Near Left | Far Left | Thru | App. Total | Left | Thru | Right | App. Total | Thru | Far Right | Near Right | App. Total | Left | Thru -Tar boro | Thru -Cok ey | Right | App. Total | Int. Total |
| Peak Hour From 07:00 AM to 09:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Intersection | 08:00 AM | | | | | | | | | | | | | | | | | |
| Volume | 7 | 29 | 151 | 187 | 64 | 0 | 27 | 91 | 207 | 36 | 10 | 253 | 32 | 27 | 57 | 17 | 133 | 664 |
| Percent | 3.7 | 15.5 | 80.7 | | 70.3 | 0.0 | 29.7 | | 81.8 | 14.2 | 4.0 | | 24.1 | 20.3 | 42.9 | 12.8 | | |
| 08:30 | | | | | | | | | | | | | | | | | | |
| Volume | 1 | 4 | 40 | 45 | 23 | 0 | 16 | 39 | 74 | 17 | 3 | 94 | 13 | 10 | 19 | 2 | 44 | 222 |
| Peak Factor | | | | | | | | | | | | | | | | | | 0.748 |
| High Int. | 08:15 AM | | | | 08:30 AM | | | | 08:30 AM | | | | 08:30 AM | | | | | |
| Volume | 3 | 11 | 38 | 52 | 23 | 0 | 16 | 39 | 74 | 17 | 3 | 94 | 13 | 10 | 19 | 2 | 44 | |
| Peak Factor | 0.899 | | | | | | | | 0.673 | | | | 0.756 | | | | | |
| Peak Hour From 07:00 AM to 09:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| By Approach | 08:00 AM | | | | 08:00 AM | | | | 08:00 AM | | | | 07:45 AM | | | | | |
| Volume | 7 | 29 | 151 | 187 | 64 | 0 | 27 | 91 | 207 | 36 | 10 | 253 | 31 | 24 | 77 | 11 | 143 | |
| Percent | 3.7 | 15.5 | 80.7 | | 70.3 | 0.0 | 29.7 | | 81.8 | 14.2 | 4.0 | | 21.7 | 16.8 | 53.8 | 7.7 | | |
| High Int. | 08:15 AM | | | | 08:30 AM | | | | 08:30 AM | | | | 07:45 AM | | | | | |
| Volume | 3 | 11 | 38 | 52 | 23 | 0 | 16 | 39 | 74 | 17 | 3 | 94 | 8 | 5 | 32 | 2 | 47 | |
| Peak Factor | 0.899 | | | | | | | | 0.673 | | | | 0.761 | | | | | |
| Peak Hour From 10:00 AM to 01:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Intersection | 11:45 AM | | | | | | | | | | | | | | | | | |
| Volume | 0 | 29 | 163 | 192 | 45 | 0 | 45 | 90 | 248 | 39 | 10 | 297 | 89 | 55 | 83 | 20 | 247 | 826 |
| Percent | 0.0 | 15.1 | 84.9 | | 50.0 | 0.0 | 50.0 | | 83.5 | 13.1 | 3.4 | | 36.0 | 22.3 | 33.6 | 8.1 | | |
| 12:15 | | | | | | | | | | | | | | | | | | |
| Volume | 0 | 5 | 38 | 43 | 10 | 0 | 8 | 18 | 73 | 9 | 4 | 86 | 30 | 13 | 38 | 4 | 85 | 232 |
| Peak Factor | | | | | | | | | | | | | | | | | | 0.890 |
| High Int. | 11:45 AM | | | | 12:00 PM | | | | 12:15 PM | | | | 12:15 PM | | | | | |
| Volume | 0 | 8 | 46 | 54 | 15 | 0 | 16 | 31 | 73 | 9 | 4 | 86 | 30 | 13 | 38 | 4 | 85 | |
| Peak Factor | 0.889 | | | | 0.726 | | | | 0.863 | | | | 0.726 | | | | | |
| Peak Hour From 10:00 AM to 01:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| By Approach | 11:00 AM | | | | 12:00 PM | | | | 11:45 AM | | | | 11:45 AM | | | | | |
| Volume | 16 | 30 | 163 | 209 | 50 | 0 | 47 | 97 | 248 | 39 | 10 | 297 | 89 | 55 | 83 | 20 | 247 | |
| Percent | 7.7 | 14.4 | 78.0 | | 51.5 | 0.0 | 48.5 | | 83.5 | 13.1 | 3.4 | | 36.0 | 22.3 | 33.6 | 8.1 | | |
| High Int. | 11:00 AM | | | | 12:00 PM | | | | 12:15 PM | | | | 12:15 PM | | | | | |
| Volume | 10 | 7 | 49 | 66 | 15 | 0 | 16 | 31 | 73 | 9 | 4 | 86 | 30 | 13 | 38 | 4 | 85 | |
| Peak Factor | 0.792 | | | | 0.782 | | | | 0.863 | | | | 0.726 | | | | | |
| Peak Hour From 02:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Intersection | 04:00 PM | | | | | | | | | | | | | | | | | |
| Volume | 2 | 41 | 210 | 253 | 78 | 0 | 64 | 142 | 696 | 59 | 10 | 765 | 95 | 83 | 114 | 24 | 316 | 1476 |
| Percent | 0.8 | 16.2 | 83.0 | | 54.9 | 0.0 | 45.1 | | 91.0 | 7.7 | 1.3 | | 30.1 | 26.3 | 36.1 | 7.6 | | |
| 04:30 | | | | | | | | | | | | | | | | | | |
| Volume | 0 | 9 | 84 | 93 | 21 | 0 | 7 | 28 | 209 | 14 | 0 | 223 | 24 | 18 | 39 | 12 | 93 | 437 |
| Peak Factor | | | | | | | | | | | | | | | | | | 0.844 |
| High Int. | 04:30 PM | | | | 04:45 PM | | | | 04:30 PM | | | | 04:00 PM | | | | | |
| Volume | 0 | 9 | 84 | 93 | 34 | 0 | 33 | 67 | 209 | 14 | 0 | 223 | 34 | 23 | 30 | 7 | 94 | |
| Peak Factor | 0.680 | | | | 0.530 | | | | 0.858 | | | | 0.840 | | | | | |
| Peak Hour From 02:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| By Approach | 05:00 PM | | | | 04:30 PM | | | | 04:00 PM | | | | 05:00 PM | | | | | |
| Volume | 8 | 50 | 210 | 268 | 102 | 0 | 76 | 178 | 696 | 59 | 10 | 765 | 148 | 100 | 147 | 28 | 423 | |
| Percent | 3.0 | 18.7 | 78.4 | | 57.3 | 0.0 | 42.7 | | 91.0 | 7.7 | 1.3 | | 35.0 | 23.6 | 34.8 | 6.6 | | |
| High Int. | 05:45 PM | | | | 04:45 PM | | | | 04:30 PM | | | | 05:00 PM | | | | | |
| Volume | 6 | 28 | 82 | 116 | 34 | 0 | 33 | 67 | 209 | 14 | 0 | 223 | 45 | 32 | 37 | 8 | 122 | |
| Peak Factor | 0.578 | | | | 0.664 | | | | 0.858 | | | | 0.867 | | | | | |

City of Rocky Mount
Engineering Dept.
One Government Plaza : Arlington St.-Atlantic Ave. & Tarboro St
Rocky Mount, NC 27804 : 01421137
Start Date : 7/10/2003
Page No : 1

Groups Printed- 1 - Unshifted

| Start Time | Atlantic Ave. Southbound | | | | Arlington St. Northbound | | | | Tarboro St. Eastbound | | | | Int. Total |
|-------------|-----------------------------|------|-------|------------|-----------------------------|------|-------|------------|--------------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| Factor | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | |
| 07:00 AM | 10 | 25 | 0 | 35 | 0 | 15 | 4 | 19 | 2 | 12 | 6 | 20 | 74 |
| 07:15 AM | 10 | 32 | 0 | 42 | 0 | 46 | 6 | 52 | 4 | 25 | 2 | 31 | 125 |
| 07:30 AM | 6 | 31 | 0 | 37 | 0 | 48 | 10 | 58 | 2 | 17 | 5 | 24 | 119 |
| 07:45 AM | 17 | 51 | 0 | 68 | 0 | 70 | 6 | 76 | 3 | 29 | 7 | 39 | 183 |
| Total | 43 | 139 | 0 | 182 | 0 | 179 | 26 | 205 | 11 | 83 | 20 | 114 | 501 |
| 08:00 AM | 17 | 40 | 0 | 57 | 0 | 48 | 9 | 57 | 1 | 21 | 3 | 25 | 139 |
| 08:15 AM | 8 | 47 | 0 | 55 | 0 | 37 | 9 | 46 | 1 | 18 | 4 | 23 | 124 |
| 08:30 AM | 7 | 25 | 0 | 32 | 0 | 26 | 3 | 29 | 1 | 26 | 1 | 28 | 89 |
| 08:45 AM | 5 | 20 | 0 | 25 | 0 | 49 | 12 | 61 | 0 | 26 | 0 | 26 | 112 |
| Total | 37 | 132 | 0 | 169 | 0 | 160 | 33 | 193 | 3 | 91 | 8 | 102 | 464 |
| 11:00 AM | 16 | 31 | 0 | 47 | 0 | 58 | 14 | 72 | 7 | 58 | 10 | 75 | 194 |
| 11:15 AM | 12 | 31 | 0 | 43 | 0 | 29 | 3 | 32 | 8 | 42 | 1 | 51 | 126 |
| 11:30 AM | 11 | 43 | 0 | 54 | 0 | 50 | 14 | 64 | 8 | 56 | 2 | 66 | 184 |
| 11:45 AM | 12 | 29 | 0 | 41 | 0 | 32 | 19 | 51 | 10 | 45 | 5 | 60 | 152 |
| Total | 51 | 134 | 0 | 185 | 0 | 169 | 50 | 219 | 33 | 201 | 18 | 252 | 656 |
| 12:00 PM | 11 | 29 | 0 | 40 | 0 | 38 | 11 | 49 | 2 | 51 | 4 | 57 | 146 |
| 12:15 PM | 9 | 38 | 0 | 47 | 0 | 50 | 4 | 54 | 1 | 35 | 1 | 37 | 138 |
| 12:30 PM | 10 | 31 | 0 | 41 | 0 | 44 | 4 | 48 | 5 | 38 | 1 | 44 | 133 |
| 12:45 PM | 12 | 33 | 0 | 45 | 0 | 41 | 7 | 48 | 4 | 42 | 3 | 49 | 142 |
| Total | 42 | 131 | 0 | 173 | 0 | 173 | 26 | 199 | 12 | 166 | 9 | 187 | 559 |
| 04:00 PM | 19 | 42 | 0 | 61 | 0 | 43 | 11 | 54 | 8 | 43 | 2 | 53 | 168 |
| 04:15 PM | 15 | 36 | 0 | 51 | 0 | 24 | 32 | 56 | 6 | 78 | 1 | 85 | 192 |
| 04:30 PM | 21 | 39 | 0 | 60 | 0 | 63 | 17 | 80 | 6 | 67 | 5 | 78 | 218 |
| 04:45 PM | 28 | 37 | 0 | 65 | 0 | 57 | 16 | 73 | 12 | 65 | 7 | 84 | 222 |
| Total | 83 | 154 | 0 | 237 | 0 | 187 | 76 | 263 | 32 | 253 | 15 | 300 | 800 |
| 05:00 PM | 29 | 55 | 0 | 84 | 0 | 81 | 16 | 97 | 2 | 80 | 10 | 92 | 273 |
| 05:15 PM | 21 | 38 | 0 | 59 | 0 | 56 | 19 | 75 | 4 | 83 | 10 | 97 | 231 |
| 05:30 PM | 22 | 38 | 0 | 60 | 0 | 72 | 29 | 101 | 6 | 73 | 8 | 87 | 248 |
| 05:45 PM | 22 | 36 | 0 | 58 | 0 | 57 | 25 | 82 | 4 | 68 | 11 | 83 | 223 |
| Total | 94 | 167 | 0 | 261 | 0 | 266 | 89 | 355 | 16 | 304 | 39 | 359 | 975 |
| Grand Total | 350 | 857 | 0 | 1207 | 0 | 1134 | 300 | 1434 | 107 | 1098 | 109 | 1314 | 3955 |
| Apprch % | 29.0 | 71.0 | 0.0 | | 0.0 | 79.1 | 20.9 | | 8.1 | 83.6 | 8.3 | | |
| Total % | 8.8 | 21.7 | 0.0 | 30.5 | 0.0 | 28.7 | 7.6 | 36.3 | 2.7 | 27.8 | 2.8 | 33.2 | |

**City of Rocky Mount
Engineering Dept.**

One Government Plaza Name : Arlington St.-Atlantic Ave. & Tarboro St

Rocky Mount, NC 27804 File No : 01421137

Start Date : 7/10/2003

Page No : 2

| | Atlantic Ave. Southbound | | | | Arlington St. Northbound | | | | Tarboro St. Eastbound | | | | |
|---|-----------------------------|------|-------|------------|-----------------------------|------|-------|------------|--------------------------|------|-------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | |
| Intersection | 07:15 AM | | | | | | | | | | | | |
| Volume | 50 | 154 | 0 | 204 | 0 | 212 | 31 | 243 | 10 | 92 | 17 | 119 | 566 |
| Percent | 24.5 | 75.5 | 0.0 | | 0.0 | 87.2 | 12.8 | | 8.4 | 77.3 | 14.3 | | |
| 07:45 Volume | 17 | 51 | 0 | 68 | 0 | 70 | 6 | 76 | 3 | 29 | 7 | 39 | 183 |
| Peak Factor | | | | | | | | | | | | | 0.773 |
| High Int. | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | | |
| Volume | 17 | 51 | 0 | 68 | 0 | 70 | 6 | 76 | 3 | 29 | 7 | 39 | |
| Peak Factor | | | | 0.750 | | | | 0.799 | | | | 0.763 | |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | |
| By Approach | 07:30 AM | | | | 07:15 AM | | | | 07:15 AM | | | | |
| Volume | 48 | 169 | 0 | 217 | 0 | 212 | 31 | 243 | 10 | 92 | 17 | 119 | |
| Percent | 22.1 | 77.9 | 0.0 | | 0.0 | 87.2 | 12.8 | | 8.4 | 77.3 | 14.3 | | |
| High Int. | 07:45 AM | | | | 07:45 AM | | | | 07:45 AM | | | | |
| Volume | 17 | 51 | 0 | 68 | 0 | 70 | 6 | 76 | 3 | 29 | 7 | 39 | |
| Peak Factor | | | | 0.798 | | | | 0.799 | | | | 0.763 | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | |
| Intersection | 11:00 AM | | | | | | | | | | | | |
| Volume | 51 | 134 | 0 | 185 | 0 | 169 | 50 | 219 | 33 | 201 | 18 | 252 | 656 |
| Percent | 27.6 | 72.4 | 0.0 | | 0.0 | 77.2 | 22.8 | | 13.1 | 79.8 | 7.1 | | |
| 11:00 Volume | 16 | 31 | 0 | 47 | 0 | 58 | 14 | 72 | 7 | 58 | 10 | 75 | 194 |
| Peak Factor | | | | | | | | | | | | | 0.845 |
| High Int. | 11:30 AM | | | | 11:00 AM | | | | 11:00 AM | | | | |
| Volume | 11 | 43 | 0 | 54 | 0 | 58 | 14 | 72 | 7 | 58 | 10 | 75 | |
| Peak Factor | | | | 0.856 | | | | 0.760 | | | | 0.840 | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | |
| By Approach | 11:00 AM | | | | 11:00 AM | | | | 11:00 AM | | | | |
| Volume | 51 | 134 | 0 | 185 | 0 | 169 | 50 | 219 | 33 | 201 | 18 | 252 | |
| Percent | 27.6 | 72.4 | 0.0 | | 0.0 | 77.2 | 22.8 | | 13.1 | 79.8 | 7.1 | | |
| High Int. | 11:30 AM | | | | 11:00 AM | | | | 11:00 AM | | | | |
| Volume | 11 | 43 | 0 | 54 | 0 | 58 | 14 | 72 | 7 | 58 | 10 | 75 | |
| Peak Factor | | | | 0.856 | | | | 0.760 | | | | 0.840 | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | |
| Intersection | 05:00 PM | | | | | | | | | | | | |
| Volume | 94 | 167 | 0 | 261 | 0 | 266 | 89 | 355 | 16 | 304 | 39 | 359 | 975 |
| Percent | 36.0 | 64.0 | 0.0 | | 0.0 | 74.9 | 25.1 | | 4.5 | 84.7 | 10.9 | | |
| 05:00 Volume | 29 | 55 | 0 | 84 | 0 | 81 | 16 | 97 | 2 | 80 | 10 | 92 | 273 |
| Peak Factor | | | | | | | | | | | | | 0.893 |
| High Int. | 05:00 PM | | | | 05:30 PM | | | | 05:15 PM | | | | |
| Volume | 29 | 55 | 0 | 84 | 0 | 72 | 29 | 101 | 4 | 83 | 10 | 97 | |
| Peak Factor | | | | 0.777 | | | | 0.879 | | | | 0.925 | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | |
| By Approach | 04:30 PM | | | | 05:00 PM | | | | 04:45 PM | | | | |
| Volume | 99 | 169 | 0 | 268 | 0 | 266 | 89 | 355 | 24 | 301 | 35 | 360 | |
| Percent | 36.9 | 63.1 | 0.0 | | 0.0 | 74.9 | 25.1 | | 6.7 | 83.6 | 9.7 | | |
| High Int. | 05:00 PM | | | | 05:30 PM | | | | 05:15 PM | | | | |
| Volume | 29 | 55 | 0 | 84 | 0 | 72 | 29 | 101 | 4 | 83 | 10 | 97 | |
| Peak Factor | | | | 0.798 | | | | 0.879 | | | | 0.928 | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : hill st.-western ave. & main s
Site Code : 01421107
Start Date : 7/22/2003
Page No : 1

Groups Printed- Unshifted

| Start Time | SW Main St. Southbound | | | | | Hill St. Westbound | | | | | SE Main St. Northbound | | | | | Eastbound | | | | | Excl u. Total | Inclu. Total | Int. Total |
|-------------|------------------------|------|-------|------|------------|--------------------|------|-------|------|------------|------------------------|------|-------|------|------------|-----------|------|-------|------|------------|---------------|--------------|------------|
| | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | | | |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | | | |
| 07:00 AM | 0 | 2 | 0 | 0 | 2 | 1 | 18 | 5 | 0 | 24 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 3 | 27 | 30 |
| 07:15 AM | 0 | 4 | 0 | 0 | 4 | 0 | 21 | 0 | 0 | 21 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 27 |
| 07:30 AM | 0 | 5 | 0 | 0 | 5 | 2 | 30 | 4 | 0 | 36 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 43 | 45 |
| 07:45 AM | 0 | 3 | 0 | 0 | 3 | 7 | 44 | 1 | 2 | 52 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 3 | 59 | 62 |
| Total | 0 | 14 | 0 | 0 | 14 | 10 | 113 | 10 | 2 | 133 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 6 | 0 | 8 | 156 | 164 |
| 08:00 AM | 0 | 7 | 1 | 0 | 8 | 2 | 29 | 4 | 3 | 35 | 2 | 3 | 0 | 1 | 5 | 0 | 0 | 0 | 2 | 0 | 6 | 48 | 54 |
| 08:15 AM | 0 | 7 | 5 | 0 | 12 | 10 | 37 | 1 | 0 | 48 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 62 | 63 |
| 08:30 AM | 0 | 10 | 2 | 0 | 12 | 5 | 44 | 4 | 0 | 53 | 0 | 7 | 0 | 1 | 7 | 0 | 0 | 0 | 1 | 0 | 2 | 72 | 74 |
| 08:45 AM | 0 | 5 | 0 | 3 | 5 | 8 | 44 | 2 | 0 | 54 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 4 | 65 | 69 |
| Total | 0 | 29 | 8 | 3 | 37 | 25 | 154 | 11 | 3 | 190 | 3 | 17 | 0 | 2 | 20 | 0 | 0 | 0 | 5 | 0 | 13 | 247 | 260 |
| 11:00 AM | 0 | 22 | 6 | 2 | 28 | 7 | 39 | 4 | 0 | 50 | 2 | 6 | 0 | 1 | 8 | 0 | 0 | 0 | 5 | 0 | 8 | 86 | 94 |
| 11:15 AM | 0 | 12 | 6 | 1 | 18 | 9 | 41 | 1 | 3 | 51 | 4 | 6 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 4 | 79 | 83 |
| 11:30 AM | 0 | 31 | 2 | 0 | 33 | 10 | 36 | 0 | 0 | 46 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 86 | 86 |
| 11:45 AM | 0 | 15 | 3 | 1 | 18 | 8 | 33 | 3 | 0 | 44 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 2 | 0 | 3 | 66 | 69 |
| Total | 0 | 80 | 17 | 4 | 97 | 34 | 149 | 8 | 3 | 191 | 8 | 21 | 0 | 1 | 29 | 0 | 0 | 0 | 7 | 0 | 15 | 317 | 332 |
| 12:00 PM | 0 | 24 | 7 | 0 | 31 | 3 | 54 | 2 | 0 | 59 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 94 | 94 |
| 12:15 PM | 0 | 22 | 7 | 3 | 29 | 4 | 28 | 3 | 0 | 35 | 3 | 8 | 0 | 2 | 11 | 0 | 0 | 0 | 0 | 0 | 5 | 75 | 80 |
| 12:30 PM | 0 | 29 | 9 | 0 | 38 | 2 | 39 | 0 | 0 | 41 | 5 | 3 | 0 | 0 | 8 | 0 | 0 | 0 | 2 | 0 | 2 | 87 | 89 |
| 12:45 PM | 0 | 23 | 9 | 5 | 32 | 6 | 35 | 0 | 3 | 41 | 2 | 8 | 0 | 0 | 10 | 0 | 0 | 0 | 7 | 0 | 15 | 83 | 98 |
| Total | 0 | 98 | 32 | 8 | 130 | 15 | 156 | 5 | 3 | 176 | 11 | 22 | 0 | 2 | 33 | 0 | 0 | 0 | 9 | 0 | 22 | 339 | 361 |
| 04:00 PM | 0 | 39 | 9 | 0 | 48 | 11 | 43 | 5 | 2 | 59 | 0 | 5 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 112 | 115 |
| 04:15 PM | 0 | 29 | 9 | 1 | 38 | 2 | 26 | 2 | 0 | 30 | 1 | 9 | 0 | 0 | 10 | 0 | 0 | 0 | 10 | 0 | 11 | 78 | 89 |
| 04:30 PM | 0 | 23 | 6 | 1 | 29 | 7 | 30 | 2 | 0 | 39 | 2 | 5 | 0 | 1 | 7 | 0 | 0 | 0 | 7 | 0 | 9 | 75 | 84 |
| 04:45 PM | 0 | 20 | 6 | 0 | 26 | 7 | 31 | 3 | 1 | 41 | 2 | 3 | 0 | 0 | 5 | 0 | 0 | 0 | 2 | 0 | 3 | 72 | 75 |
| Total | 0 | 111 | 30 | 2 | 141 | 27 | 130 | 12 | 3 | 169 | 5 | 22 | 0 | 2 | 27 | 0 | 0 | 0 | 19 | 0 | 26 | 337 | 363 |
| 05:00 PM | 0 | 14 | 5 | 0 | 19 | 1 | 26 | 9 | 0 | 36 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 62 | 62 |
| 05:15 PM | 0 | 6 | 4 | 0 | 10 | 1 | 24 | 1 | 0 | 26 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 40 |
| 05:30 PM | 0 | 20 | 1 | 0 | 21 | 0 | 21 | 2 | 0 | 23 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 6 | 0 | 6 | 47 | 53 |
| 05:45 PM | 0 | 14 | 2 | 0 | 16 | 0 | 27 | 2 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 45 | 47 |
| Total | 0 | 54 | 12 | 0 | 66 | 2 | 98 | 14 | 0 | 114 | 4 | 10 | 0 | 0 | 14 | 0 | 0 | 0 | 8 | 0 | 8 | 194 | 202 |
| Grand Total | 0 | 386 | 99 | 17 | 485 | 113 | 800 | 60 | 14 | 973 | 31 | 101 | 0 | 7 | 132 | 0 | 0 | 0 | 54 | 0 | 92 | 1590 | 1682 |
| Apprch % | 0.0 | 79.6 | 20.4 | | | 11.6 | 82.2 | 6.2 | | | 23.5 | 76.5 | 0.0 | | | 0.0 | 0.0 | 0.0 | | | | | |
| Total % | 0.0 | 24.3 | 6.2 | | 30.5 | 7.1 | 50.3 | 3.8 | | 61.2 | 1.9 | 6.4 | 0.0 | | 8.3 | 0.0 | 0.0 | 0.0 | | 0.0 | 5.5 | 94.5 | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : hill st.-western ave. & main s
Site Code : 01421107
Start Date : 7/22/2003
Page No : 2

| | SW Main St. Southbound | | | | Hill St. Westbound | | | | SE Main St. Northbound | | | | Eastbound | | | | |
|---|---------------------------|------|-------|---------------|-----------------------|------|-------|---------------|---------------------------|------|-------|---------------|------------|------|-------|---------------|---------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 08:00 AM | | | | | | | | | | | | | | | | |
| Volume | 0 | 29 | 8 | 37 | 25 | 154 | 11 | 190 | 3 | 17 | 0 | 20 | 0 | 0 | 0 | 0 | 247 |
| Percent | 0.0 | 78.4 | 21.6 | | 13.2 | 81.1 | 5.8 | | 15.0 | 85.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 08:30 | 0 | 10 | 2 | 12 | 5 | 44 | 4 | 53 | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 72 |
| Volume | | | | | | | | | | | | | | | | | |
| Peak Factor | | | | | | | | | | | | | | | | | 0.858 |
| High Int. | 08:15 AM | | | | 08:45 AM | | | | 08:30 AM | | | | 6:45:00 AM | | | | |
| Volume | 0 | 7 | 5 | 12 | 8 | 44 | 2 | 54 | 0 | 7 | 0 | 7 | | | | | |
| Peak Factor | 0.771 | | | | 0.880 | | | | 0.714 | | | | | | | | |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 08:00 AM | | | | 08:00 AM | | | | 08:00 AM | | | | 07:00 AM | | | | |
| Volume | 0 | 29 | 8 | 37 | 25 | 154 | 11 | 190 | 3 | 17 | 0 | 20 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 78.4 | 21.6 | | 13.2 | 81.1 | 5.8 | | 15.0 | 85.0 | 0.0 | | - | - | - | - | |
| High Int. | 08:15 AM | | | | 08:45 AM | | | | 08:30 AM | | | | | | | | |
| Volume | 0 | 7 | 5 | 12 | 8 | 44 | 2 | 54 | 0 | 7 | 0 | 7 | - | - | - | - | |
| Peak Factor | 0.771 | | | | 0.880 | | | | 0.714 | | | | | | | | - |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 12:00 PM | | | | | | | | | | | | | | | | |
| Volume | 0 | 98 | 32 | 130 | 15 | 156 | 5 | 176 | 11 | 22 | 0 | 33 | 0 | 0 | 0 | 0 | 339 |
| Percent | 0.0 | 75.4 | 24.6 | | 8.5 | 88.6 | 2.8 | | 33.3 | 66.7 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 12:00 | 0 | 24 | 7 | 31 | 3 | 54 | 2 | 59 | 1 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 94 |
| Volume | | | | | | | | | | | | | | | | | |
| Peak Factor | | | | | | | | | | | | | | | | | 0.902 |
| High Int. | 12:30 PM | | | | 12:00 PM | | | | 12:15 PM | | | | | | | | |
| Volume | 0 | 29 | 9 | 38 | 3 | 54 | 2 | 59 | 3 | 8 | 0 | 11 | | | | | |
| Peak Factor | 0.855 | | | | 0.746 | | | | 0.750 | | | | | | | | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 12:00 PM | | | | 11:15 AM | | | | 12:00 PM | | | | 11:00 AM | | | | |
| Volume | 0 | 98 | 32 | 130 | 30 | 164 | 6 | 200 | 11 | 22 | 0 | 33 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 75.4 | 24.6 | | 15.0 | 82.0 | 3.0 | | 33.3 | 66.7 | 0.0 | | - | - | - | - | |
| High Int. | 12:30 PM | | | | 12:00 PM | | | | 12:15 PM | | | | | | | | |
| Volume | 0 | 29 | 9 | 38 | 3 | 54 | 2 | 59 | 3 | 8 | 0 | 11 | - | - | - | - | |
| Peak Factor | 0.855 | | | | 0.847 | | | | 0.750 | | | | | | | | - |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 04:00 PM | | | | | | | | | | | | | | | | |
| Volume | 0 | 111 | 30 | 141 | 27 | 130 | 12 | 169 | 5 | 22 | 0 | 27 | 0 | 0 | 0 | 0 | 337 |
| Percent | 0.0 | 78.7 | 21.3 | | 16.0 | 76.9 | 7.1 | | 18.5 | 81.5 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 04:00 | 0 | 39 | 9 | 48 | 11 | 43 | 5 | 59 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 112 |
| Volume | | | | | | | | | | | | | | | | | |
| Peak Factor | | | | | | | | | | | | | | | | | 0.752 |
| High Int. | 04:00 PM | | | | 04:00 PM | | | | 04:15 PM | | | | | | | | |
| Volume | 0 | 39 | 9 | 48 | 11 | 43 | 5 | 59 | 1 | 9 | 0 | 10 | | | | | |
| Peak Factor | 0.734 | | | | 0.716 | | | | 0.675 | | | | | | | | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 04:00 PM | | | | 04:00 PM | | | | 04:15 PM | | | | 04:00 PM | | | | |
| Volume | 0 | 111 | 30 | 141 | 27 | 130 | 12 | 169 | 6 | 23 | 0 | 29 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 78.7 | 21.3 | | 16.0 | 76.9 | 7.1 | | 20.7 | 79.3 | 0.0 | | - | - | - | - | |
| High Int. | 04:00 PM | | | | 04:00 PM | | | | 04:15 PM | | | | | | | | |
| Volume | 0 | 39 | 9 | 48 | 11 | 43 | 5 | 59 | 1 | 9 | 0 | 10 | - | - | - | - | |
| Peak Factor | 0.734 | | | | 0.716 | | | | 0.725 | | | | | | | | - |

File Name : Franklin St. & Thomas S
Site Code : 01320112
Start Date : 5/27/2003
Page No : 1

| | Franklin St. Southbound | | | | Thomas St. Westbound | | | | Northbound | | | | Eastbound | | | | Int. Total |
|------------|----------------------------|------|-------|---------------|-------------------------|------|-------|---------------|------------|------|-------|---------------|-----------|------|-------|---------------|---------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Factor | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | |
| 07:00 AM | 0 | 46 | 0 | 46 | 0 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 07:15 AM | 0 | 54 | 2 | 56 | 0 | 17 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 73 |
| 07:30 AM | 0 | 49 | 3 | 52 | 6 | 44 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102 |
| 07:45 AM | 0 | 114 | 2 | 116 | 9 | 50 | 0 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 175 |
| Total | 0 | 263 | 7 | 270 | 15 | 126 | 0 | 141 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 411 |
| 08:00 AM | 0 | 122 | 3 | 125 | 10 | 58 | 0 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 193 |
| 08:15 AM | 0 | 103 | 1 | 104 | 14 | 62 | 0 | 76 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 180 |
| 08:30 AM | 0 | 90 | 3 | 93 | 7 | 53 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 153 |
| 08:45 AM | 0 | 71 | 5 | 76 | 22 | 72 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170 |
| Total | 0 | 386 | 12 | 398 | 53 | 245 | 0 | 298 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 696 |
| 11:00 AM | 0 | 76 | 7 | 83 | 20 | 101 | 0 | 121 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 204 |
| 11:15 AM | 0 | 52 | 7 | 59 | 21 | 102 | 0 | 123 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 182 |
| 11:30 AM | 0 | 62 | 4 | 66 | 28 | 101 | 0 | 129 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 195 |
| 11:45 AM | 0 | 73 | 16 | 89 | 26 | 123 | 0 | 149 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 238 |
| Total | 0 | 263 | 34 | 297 | 95 | 427 | 0 | 522 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 819 |
| 12:00 PM | 0 | 82 | 15 | 97 | 28 | 141 | 0 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 266 |
| 12:15 PM | 0 | 78 | 9 | 87 | 25 | 108 | 0 | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 220 |
| 12:30 PM | 0 | 69 | 7 | 76 | 30 | 128 | 0 | 158 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 234 |
| 12:45 PM | 0 | 82 | 12 | 94 | 32 | 104 | 0 | 136 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 230 |
| Total | 0 | 311 | 43 | 354 | 115 | 481 | 0 | 596 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 950 |
| 04:00 PM | 0 | 88 | 12 | 100 | 23 | 90 | 0 | 113 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 213 |
| 04:15 PM | 0 | 80 | 4 | 84 | 26 | 98 | 0 | 124 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 208 |
| 04:30 PM | 0 | 65 | 9 | 74 | 22 | 131 | 0 | 153 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 227 |
| 04:45 PM | 0 | 60 | 6 | 66 | 12 | 85 | 0 | 97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 163 |
| Total | 0 | 293 | 31 | 324 | 83 | 404 | 0 | 487 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 811 |
| 05:00 PM | 0 | 74 | 5 | 79 | 18 | 94 | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 191 |
| 05:15 PM | 0 | 72 | 9 | 81 | 20 | 137 | 0 | 157 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 238 |
| 05:30 PM | 0 | 59 | 3 | 62 | 10 | 93 | 0 | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 165 |
| 05:45 PM | 0 | 60 | 0 | 60 | 7 | 78 | 0 | 85 | | | | | | | | | |

File Name : Franklin St. & Thomas S
Site Code : 01320112
Start Date : 5/27/2003
Page No : 2

| | Franklin St. Southbound | | | | Thomas St. Westbound | | | | Northbound | | | | Eastbound | | | | |
|---|----------------------------|------|-------|---------------|-------------------------|------|-------|---------------|------------|------|-------|---------------|------------|------|-------|---------------|---------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 07:45 AM | | | | | | | | | | | | | | | | |
| Volume | 0 | 429 | 9 | 438 | 40 | 223 | 0 | 263 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 701 |
| Percent | 0.0 | 97.9 | 2.1 | | 15.2 | 84.8 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 08:00 | 0 | 122 | 3 | 125 | 10 | 58 | 0 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 193 |
| Volume | | | | | | | | | | | | | | | | | 0.908 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 08:00 AM | | | | 08:15 AM | | | | 6:45:00 AM | | | | 6:45:00 AM | | | | |
| Volume | 0 | 122 | 3 | 125 | 14 | 62 | 0 | 76 | | | | | | | | | |
| Peak Factor | 0.876 | | | | 0.865 | | | | | | | | | | | | |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 07:45 AM | | | | 08:00 AM | | | | 07:00 AM | | | | 07:00 AM | | | | |
| Volume | 0 | 429 | 9 | 438 | 53 | 245 | 0 | 298 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 97.9 | 2.1 | | 17.8 | 82.2 | 0.0 | | - | - | - | - | - | - | - | - | |
| High Int. | 08:00 AM | | | | 08:45 AM | | | | - | | | | - | | | | |
| Volume | 0 | 122 | 3 | 125 | 22 | 72 | 0 | 94 | - | - | - | - | - | - | - | - | |
| Peak Factor | 0.876 | | | | 0.793 | | | | - | | | | - | | | | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 11:45 AM | | | | | | | | | | | | | | | | |
| Volume | 0 | 302 | 47 | 349 | 109 | 500 | 0 | 609 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 958 |
| Percent | 0.0 | 86.5 | 13.5 | | 17.9 | 82.1 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 12:00 | 0 | 82 | 15 | 97 | 28 | 141 | 0 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 266 |
| Volume | | | | | | | | | | | | | | | | | 0.900 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 12:00 PM | | | | 12:00 PM | | | | | | | | | | | | |
| Volume | 0 | 82 | 15 | 97 | 28 | 141 | 0 | 169 | | | | | | | | | |
| Peak Factor | 0.899 | | | | 0.901 | | | | | | | | | | | | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 12:00 PM | | | | 11:45 AM | | | | 11:00 AM | | | | 11:00 AM | | | | |
| Volume | 0 | 311 | 43 | 354 | 109 | 500 | 0 | 609 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 87.9 | 12.1 | | 17.9 | 82.1 | 0.0 | | - | - | - | - | - | - | - | - | |
| High Int. | 12:00 PM | | | | 12:00 PM | | | | - | | | | - | | | | |
| Volume | 0 | 82 | 15 | 97 | 28 | 141 | 0 | 169 | - | - | - | - | - | - | - | - | |
| Peak Factor | 0.912 | | | | 0.901 | | | | - | | | | - | | | | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 04:30 PM | | | | | | | | | | | | | | | | |
| Volume | 0 | 271 | 29 | 300 | 72 | 447 | 0 | 519 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 819 |
| Percent | 0.0 | 90.3 | 9.7 | | 13.9 | 86.1 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 05:15 | 0 | 72 | 9 | 81 | 20 | 137 | 0 | 157 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 238 |
| Volume | | | | | | | | | | | | | | | | | 0.860 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 05:15 PM | | | | 05:15 PM | | | | | | | | | | | | |
| Volume | 0 | 72 | 9 | 81 | 20 | 137 | 0 | 157 | | | | | | | | | |
| Peak Factor | 0.926 | | | | 0.826 | | | | | | | | | | | | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 04:00 PM | | | | 04:30 PM | | | | 04:00 PM | | | | 04:00 PM | | | | |
| Volume | 0 | 293 | 31 | 324 | 72 | 447 | 0 | 519 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 90.4 | 9.6 | | 13.9 | 86.1 | 0.0 | | - | - | - | - | - | - | - | - | |
| High Int. | 04:00 PM | | | | 05:15 PM | | | | - | | | | - | | | | |
| Volume | 0 | 88 | 12 | 100 | 20 | 137 | 0 | 157 | - | - | - | - | - | - | - | - | |
| Peak Factor | 0.810 | | | | 0.826 | | | | - | | | | - | | | | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : Church St. & Thomas S
Site Code : 01421100
Start Date : 5/21/2003
Page No : 1

Groups Printed- Unshifted

| Start Time | Southbound | | | | | Thomas St. Westbound | | | | | Church St. Northbound | | | | | Eastbound | | | | | Excl u. Total | Inclu. Total | Int. Total |
|-------------|------------|------|-------|------|------------|----------------------|------|-------|------|------------|-----------------------|------|-------|------|------------|-----------|------|-------|------|------------|---------------|--------------|------------|
| | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | | | |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | | | |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 6 | 0 | 28 | 16 | 47 | 0 | 0 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 91 | 91 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 1 | 0 | 24 | 16 | 56 | 0 | 0 | 72 | 0 | 0 | 0 | 0 | 0 | 0 | 96 | 96 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 4 | 0 | 40 | 17 | 64 | 0 | 0 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 121 | 121 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 57 | 5 | 0 | 62 | 21 | 73 | 0 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 156 | 156 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 138 | 16 | 0 | 154 | 70 | 240 | 0 | 0 | 310 | 0 | 0 | 0 | 0 | 0 | 0 | 464 | 464 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 10 | 0 | 68 | 42 | 88 | 0 | 1 | 130 | 0 | 0 | 0 | 0 | 0 | 1 | 198 | 199 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 2 | 0 | 58 | 32 | 75 | 0 | 0 | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 165 | 165 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 6 | 0 | 40 | 44 | 77 | 0 | 0 | 121 | 0 | 0 | 0 | 0 | 0 | 0 | 161 | 161 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 6 | 0 | 69 | 26 | 61 | 0 | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 156 | 156 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 211 | 24 | 0 | 235 | 144 | 301 | 0 | 1 | 445 | 0 | 0 | 0 | 0 | 0 | 1 | 680 | 681 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 8 | 0 | 66 | 35 | 76 | 0 | 0 | 111 | 0 | 0 | 0 | 0 | 0 | 0 | 177 | 177 |
| 11:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 66 | 11 | 0 | 77 | 38 | 70 | 0 | 0 | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 185 | 185 |
| 11:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 78 | 12 | 2 | 90 | 44 | 94 | 0 | 1 | 138 | 0 | 0 | 0 | 0 | 0 | 3 | 228 | 231 |
| 11:45 AM | 0 | 0 | 0 | 1 | 0 | 0 | 77 | 9 | 1 | 86 | 57 | 76 | 0 | 0 | 133 | 0 | 0 | 0 | 0 | 0 | 2 | 219 | 221 |
| Total | 0 | 0 | 0 | 1 | 0 | 0 | 279 | 40 | 3 | 319 | 174 | 316 | 0 | 1 | 490 | 0 | 0 | 0 | 0 | 0 | 5 | 809 | 814 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 62 | 15 | 0 | 77 | 63 | 105 | 0 | 0 | 168 | 0 | 0 | 0 | 0 | 0 | 0 | 245 | 245 |
| 12:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 67 | 9 | 0 | 76 | 61 | 95 | 0 | 0 | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 232 | 232 |
| 12:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 8 | 0 | 59 | 48 | 84 | 0 | 0 | 132 | 0 | 0 | 0 | 0 | 0 | 0 | 191 | 191 |
| 12:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 59 | 12 | 0 | 71 | 61 | 95 | 0 | 0 | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 227 | 227 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 239 | 44 | 0 | 283 | 233 | 379 | 0 | 0 | 612 | 0 | 0 | 0 | 0 | 0 | 0 | 895 | 895 |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 66 | 14 | 0 | 80 | 40 | 68 | 0 | 0 | 108 | 0 | 0 | 0 | 1 | 0 | 1 | 188 | 189 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 73 | 6 | 0 | 79 | 56 | 100 | 0 | 0 | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 235 | 235 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 74 | 13 | 0 | 87 | 41 | 82 | 0 | 0 | 123 | 0 | 0 | 0 | 0 | 0 | 0 | 210 | 210 |
| 04:45 PM | 0 | 0 | 0 | 1 | 0 | 0 | 73 | 9 | 1 | 82 | 38 | 115 | 0 | 0 | 153 | 0 | 0 | 0 | 0 | 0 | 2 | 235 | 237 |
| Total | 0 | 0 | 0 | 1 | 0 | 0 | 286 | 42 | 1 | 328 | 175 | 365 | 0 | 0 | 540 | 0 | 0 | 0 | 1 | 0 | 3 | 868 | 871 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 97 | 16 | 1 | 113 | 65 | 179 | 0 | 1 | 244 | 0 | 0 | 0 | 0 | 0 | 2 | 357 | 359 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 71 | 9 | 0 | 80 | 51 | 104 | 0 | 0 | 155 | 0 | 0 | 0 | 0 | 0 | 0 | 235 | 235 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 22 | 0 | 80 | 40 | 93 | 0 | 0 | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 213 | 213 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 10 | 0 | 49 | 27 | 72 | 0 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 148 | 148 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 265 | 57 | 1 | 322 | 183 | 448 | 0 | 1 | 631 | 0 | 0 | 0 | 0 | 0 | 2 | 953 | 955 |
| Grand Total | 0 | 0 | 0 | 2 | 0 | 0 | 1418 | 223 | 5 | 1641 | 979 | 2049 | 0 | 3 | 3028 | 0 | 0 | 0 | 1 | 0 | 11 | 4669 | 4680 |
| Apprch % | 0.0 | 0.0 | 0.0 | | | 0.0 | 86.4 | 13.6 | | | 32.3 | 67.7 | 0.0 | | | 0.0 | 0.0 | 0.0 | | | | | |
| Total % | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 30.4 | 4.8 | | 35.1 | 21.0 | 43.9 | 0.0 | | 64.9 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.2 | 99.8 | |

Total without Peds
Total with Peds

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : Church St. & Thomas S
Site Code : 01421100
Start Date : 5/21/2003
Page No : 2

| | Southbound | | | | Thomas St. Westbound | | | | Church St. Northbound | | | | Eastbound | | | | |
|---|------------|------|-------|---------------|-------------------------|------|-------|---------------|--------------------------|------|-------|---------------|------------|------|-------|---------------|---------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 07:45 AM | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 205 | 23 | 228 | 139 | 313 | 0 | 452 | 0 | 0 | 0 | 0 | 680 |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 89.9 | 10.1 | | 30.8 | 69.2 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 08:00 | 0 | 0 | 0 | 0 | 0 | 58 | 10 | 68 | 42 | 88 | 0 | 130 | 0 | 0 | 0 | 0 | 198 |
| Volume | | | | | | | | | | | | | | | | | 0.859 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 6:45:00 AM | | | | 08:00 AM | | | | 08:00 AM | | | | 6:45:00 AM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 58 | 10 | 68 | 42 | 88 | 0 | 130 | | | | | |
| Peak Factor | | | | | | | | 0.838 | | | | 0.869 | | | | | |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 07:00 AM | | | | 08:00 AM | | | | 07:45 AM | | | | 07:00 AM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 211 | 24 | 235 | 139 | 313 | 0 | 452 | 0 | 0 | 0 | 0 | |
| Percent | - | - | - | | 0.0 | 89.8 | 10.2 | | 30.8 | 69.2 | 0.0 | | - | - | - | | |
| High Int. | - | - | - | | 08:45 AM | | | | 08:00 AM | | | | - | - | - | | |
| Volume | - | - | - | - | 0 | 63 | 6 | 69 | 42 | 88 | 0 | 130 | - | - | - | - | |
| Peak Factor | | | | | | | | 0.851 | | | | 0.869 | | | | | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 11:30 AM | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 284 | 45 | 329 | 225 | 370 | 0 | 595 | 0 | 0 | 0 | 0 | 924 |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 86.3 | 13.7 | | 37.8 | 62.2 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 12:00 | 0 | 0 | 0 | 0 | 0 | 62 | 15 | 77 | 63 | 105 | 0 | 168 | 0 | 0 | 0 | 0 | 245 |
| Volume | | | | | | | | | | | | | | | | | 0.943 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | | | | | 11:30 AM | | | | 12:00 PM | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 78 | 12 | 90 | 63 | 105 | 0 | 168 | | | | | |
| Peak Factor | | | | | | | | 0.914 | | | | 0.885 | | | | | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 11:00 AM | | | | 11:15 AM | | | | 12:00 PM | | | | 11:00 AM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 283 | 47 | 330 | 233 | 379 | 0 | 612 | 0 | 0 | 0 | 0 | |
| Percent | - | - | - | | 0.0 | 85.8 | 14.2 | | 38.1 | 61.9 | 0.0 | | - | - | - | | |
| High Int. | - | - | - | | 11:30 AM | | | | 12:00 PM | | | | - | - | - | | |
| Volume | - | - | - | - | 0 | 78 | 12 | 90 | 63 | 105 | 0 | 168 | - | - | - | - | |
| Peak Factor | | | | | | | | 0.917 | | | | 0.911 | | | | | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 04:45 PM | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 299 | 56 | 355 | 194 | 491 | 0 | 685 | 0 | 0 | 0 | 0 | 1040 |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 84.2 | 15.8 | | 28.3 | 71.7 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 05:00 | 0 | 0 | 0 | 0 | 0 | 97 | 16 | 113 | 65 | 179 | 0 | 244 | 0 | 0 | 0 | 0 | 357 |
| Volume | | | | | | | | | | | | | | | | | 0.728 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | | | | | 05:00 PM | | | | 05:00 PM | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 97 | 16 | 113 | 65 | 179 | 0 | 244 | | | | | |
| Peak Factor | | | | | | | | 0.785 | | | | 0.702 | | | | | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 04:00 PM | | | | 04:30 PM | | | | 04:45 PM | | | | 04:00 PM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 315 | 47 | 362 | 194 | 491 | 0 | 685 | 0 | 0 | 0 | 0 | |
| Percent | - | - | - | | 0.0 | 87.0 | 13.0 | | 28.3 | 71.7 | 0.0 | | - | - | - | | |
| High Int. | - | - | - | | 05:00 PM | | | | 05:00 PM | | | | - | - | - | | |
| Volume | - | - | - | - | 0 | 97 | 16 | 113 | 65 | 179 | 0 | 244 | - | - | - | - | |
| Peak Factor | | | | | | | | 0.801 | | | | 0.702 | | | | | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : Franklin St. & Sunset Ave
Site Code : 01321108
Start Date : 5/27/2003
Page No : 1

Groups Printed- Unshifted

| Start Time | Franklin St. Southbound | | | | Westbound | | | | Northbound | | | | Sunset Ave. Eastbound | | | | Int. Total |
|-------------|----------------------------|------|-------|---------------|-----------|------|-------|---------------|------------|------|-------|---------------|--------------------------|------|-------|---------------|---------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| Factor | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | |
| 07:00 AM | 6 | 35 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 4 | 28 | 69 |
| 07:15 AM | 14 | 52 | 0 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 13 | 45 | 111 |
| 07:30 AM | 6 | 50 | 0 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | 16 | 59 | 115 |
| 07:45 AM | 15 | 95 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 | 21 | 80 | 190 |
| Total | 41 | 232 | 0 | 273 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 158 | 54 | 212 | 485 |
| 08:00 AM | 12 | 74 | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 18 | 100 | 186 |
| 08:15 AM | 17 | 80 | 0 | 97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 20 | 95 | 192 |
| 08:30 AM | 16 | 65 | 0 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 20 | 92 | 173 |
| 08:45 AM | 18 | 50 | 0 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65 | 27 | 92 | 160 |
| Total | 63 | 269 | 0 | 332 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 294 | 85 | 379 | 711 |
| 11:00 AM | 34 | 56 | 0 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 101 | 31 | 132 | 222 |
| 11:15 AM | 26 | 65 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 87 | 22 | 109 | 200 |
| 11:30 AM | 21 | 62 | 0 | 83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 94 | 18 | 112 | 195 |
| 11:45 AM | 29 | 110 | 0 | 139 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 | 24 | 136 | 275 |
| Total | 110 | 293 | 0 | 403 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 394 | 95 | 489 | 892 |
| 12:00 PM | 35 | 80 | 0 | 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 96 | 39 | 135 | 250 |
| 12:15 PM | 35 | 84 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103 | 31 | 134 | 253 |
| 12:30 PM | 30 | 89 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 119 | 31 | 150 | 269 |
| 12:45 PM | 34 | 99 | 0 | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102 | 22 | 124 | 257 |
| Total | 134 | 352 | 0 | 486 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 420 | 123 | 543 | 1029 |
| 04:00 PM | 13 | 40 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 | 16 | 90 | 143 |
| 04:15 PM | 27 | 66 | 0 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69 | 19 | 88 | 181 |
| 04:30 PM | 24 | 60 | 0 | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 97 | 20 | 117 | 201 |
| 04:45 PM | 25 | 69 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 97 | 23 | 120 | 214 |
| Total | 89 | 235 | 0 | 324 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 337 | 78 | 415 | 739 |
| 05:00 PM | 24 | 118 | 0 | 142 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 25 | 79 | 221 |
| 05:15 PM | 21 | 68 | 0 | 89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 93 | 14 | 107 | 196 |
| 05:30 PM | 17 | 71 | 0 | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 17 | 99 | 187 |
| 05:45 PM | 41 | 122 | 0 | 163 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 109 | 24 | 133 | 296 |
| Total | 103 | 379 | 0 | 482 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 338 | 80 | 418 | 900 |
| Grand Total | 540 | 1760 | 0 | 2300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1941 | 515 | 2456 | 4756 |
| Apprch % | 23.5 | 76.5 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 79.0 | 21.0 | | |
| Total % | 11.4 | 37.0 | 0.0 | 48.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 40.8 | 10.8 | 51.6 | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : Franklin St. & Sunset Ave
Site Code : 01321108
Start Date : 5/27/2003
Page No : 2

| | Franklin St. Southbound | | | | Westbound | | | | Northbound | | | | Sunset Ave. Eastbound | | | | |
|---|----------------------------|------|-------|---------------|------------|------|-------|---------------|------------|------|-------|---------------|--------------------------|------|-------|---------------|---------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 07:45 AM | | | | | | | | | | | | | | | | |
| Volume | 60 | 314 | 0 | 374 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 288 | 79 | 367 | 741 |
| Percent | 16.0 | 84.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 78.5 | 21.5 | | |
| 08:15 | 17 | 80 | 0 | 97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 20 | 95 | 192 |
| Volume | | | | | | | | | | | | | | | | | 0.965 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 07:45 AM | | | | 6:45:00 AM | | | | 6:45:00 AM | | | | 08:00 AM | | | | |
| Volume | 15 | 95 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 18 | 100 | |
| Peak Factor | 0.850 | | | | | | | | | | | | 0.918 | | | | |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 07:45 AM | | | | 07:00 AM | | | | 07:00 AM | | | | 08:00 AM | | | | |
| Volume | 60 | 314 | 0 | 374 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 294 | 85 | 379 | |
| Percent | 16.0 | 84.0 | 0.0 | | - | - | - | - | - | - | - | - | 0.0 | 77.6 | 22.4 | | |
| High Int. | 07:45 AM | | | | | | | | | | | | 08:00 AM | | | | |
| Volume | 15 | 95 | 0 | 110 | - | - | - | - | - | - | - | - | 0 | 82 | 18 | 100 | |
| Peak Factor | 0.850 | | | | | | | | | | | | 0.948 | | | | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 11:45 AM | | | | | | | | | | | | | | | | |
| Volume | 129 | 363 | 0 | 492 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 430 | 125 | 555 | 1047 |
| Percent | 26.2 | 73.8 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 77.5 | 22.5 | | |
| 11:45 | 29 | 110 | 0 | 139 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 | 24 | 136 | 275 |
| Volume | | | | | | | | | | | | | | | | | 0.952 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 11:45 AM | | | | | | | | | | | | 12:30 PM | | | | |
| Volume | 29 | 110 | 0 | 139 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 119 | 31 | 150 | |
| Peak Factor | 0.885 | | | | | | | | | | | | 0.925 | | | | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 11:45 AM | | | | 11:00 AM | | | | 11:00 AM | | | | 11:45 AM | | | | |
| Volume | 129 | 363 | 0 | 492 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 430 | 125 | 555 | |
| Percent | 26.2 | 73.8 | 0.0 | | - | - | - | - | - | - | - | - | 0.0 | 77.5 | 22.5 | | |
| High Int. | 11:45 AM | | | | | | | | | | | | 12:30 PM | | | | |
| Volume | 29 | 110 | 0 | 139 | - | - | - | - | - | - | - | - | 0 | 119 | 31 | 150 | |
| Peak Factor | 0.885 | | | | | | | | | | | | 0.925 | | | | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 05:00 PM | | | | | | | | | | | | | | | | |
| Volume | 103 | 379 | 0 | 482 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 338 | 80 | 418 | 900 |
| Percent | 21.4 | 78.6 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 80.9 | 19.1 | | |
| 05:45 | 41 | 122 | 0 | 163 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 109 | 24 | 133 | 296 |
| Volume | | | | | | | | | | | | | | | | | 0.760 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 05:45 PM | | | | | | | | | | | | 05:45 PM | | | | |
| Volume | 41 | 122 | 0 | 163 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 109 | 24 | 133 | |
| Peak Factor | 0.739 | | | | | | | | | | | | 0.786 | | | | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 05:00 PM | | | | 04:00 PM | | | | 04:00 PM | | | | 04:30 PM | | | | |
| Volume | 103 | 379 | 0 | 482 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 341 | 82 | 423 | |
| Percent | 21.4 | 78.6 | 0.0 | | - | - | - | - | - | - | - | - | 0.0 | 80.6 | 19.4 | | |
| High Int. | 05:45 PM | | | | | | | | | | | | 04:45 PM | | | | |
| Volume | 41 | 122 | 0 | 163 | - | - | - | - | - | - | - | - | 0 | 97 | 23 | 120 | |
| Peak Factor | 0.739 | | | | | | | | | | | | 0.881 | | | | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : Church St. & Sunset Ave
Site Code : 01421101
Start Date : 5/21/2003
Page No : 1

Groups Printed- Unshifted

| Start Time | Church St. Southbound | | | | | Sunset Ave. Westbound | | | | | Church St. Northbound | | | | | Sunset Ave. Eastbound | | | | | Excl u. Total | Inclu. Total | Int. Total |
|-------------|-----------------------|------|-------|------|------------|-----------------------|------|-------|------|------------|-----------------------|------|-------|------|------------|-----------------------|------|-------|------|------------|---------------|--------------|------------|
| | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | | | |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | | | |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 | 1 | 0 | 50 | 4 | 37 | 0 | 0 | 41 | 0 | 91 | 91 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 5 | 2 | 60 | 22 | 42 | 0 | 1 | 64 | 3 | 124 | 127 |
| 07:30 AM | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 76 | 5 | 0 | 81 | 18 | 48 | 0 | 0 | 66 | 2 | 147 | 149 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 89 | 8 | 0 | 97 | 21 | 63 | 0 | 0 | 84 | 0 | 181 | 181 |
| Total | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 269 | 19 | 2 | 288 | 65 | 190 | 0 | 1 | 255 | 5 | 543 | 548 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 105 | 11 | 0 | 116 | 35 | 46 | 0 | 0 | 81 | 1 | 197 | 198 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 6 | 0 | 106 | 33 | 41 | 0 | 0 | 74 | 0 | 180 | 180 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 106 | 5 | 1 | 111 | 26 | 50 | 0 | 0 | 76 | 1 | 187 | 188 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 77 | 9 | 0 | 86 | 10 | 68 | 0 | 0 | 78 | 0 | 164 | 164 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 388 | 31 | 1 | 419 | 104 | 205 | 0 | 0 | 309 | 2 | 728 | 730 |
| 11:00 AM | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102 | 6 | 0 | 108 | 27 | 65 | 0 | 0 | 92 | 2 | 200 | 202 |
| 11:15 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 9 | 0 | 89 | 23 | 66 | 0 | 2 | 89 | 3 | 178 | 181 |
| 11:30 AM | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 14 | 4 | 119 | 17 | 64 | 0 | 2 | 81 | 10 | 200 | 210 |
| 11:45 AM | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 95 | 4 | 2 | 99 | 26 | 80 | 0 | 1 | 106 | 6 | 205 | 211 |
| Total | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 382 | 33 | 6 | 415 | 93 | 275 | 0 | 5 | 368 | 21 | 783 | 804 |
| 12:00 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 12 | 4 | 132 | 28 | 84 | 0 | 2 | 112 | 7 | 244 | 251 |
| 12:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130 | 9 | 0 | 139 | 27 | 82 | 0 | 6 | 109 | 6 | 248 | 254 |
| 12:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 92 | 14 | 0 | 106 | 27 | 93 | 0 | 4 | 120 | 4 | 226 | 230 |
| 12:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 104 | 5 | 1 | 109 | 32 | 72 | 0 | 2 | 104 | 3 | 213 | 216 |
| Total | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 446 | 40 | 5 | 486 | 114 | 331 | 0 | 14 | 445 | 20 | 931 | 951 |
| 04:00 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 119 | 8 | 2 | 127 | 24 | 79 | 0 | 1 | 103 | 4 | 230 | 234 |
| 04:15 PM | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 124 | 10 | 1 | 134 | 28 | 80 | 0 | 2 | 108 | 6 | 242 | 248 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 8 | 0 | 113 | 24 | 82 | 0 | 0 | 106 | 0 | 219 | 219 |
| 04:45 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 117 | 6 | 1 | 123 | 24 | 89 | 0 | 1 | 113 | 4 | 236 | 240 |
| Total | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 465 | 32 | 4 | 497 | 100 | 330 | 0 | 4 | 430 | 14 | 927 | 941 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 163 | 15 | 1 | 178 | 21 | 81 | 0 | 0 | 102 | 1 | 280 | 281 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 11 | 2 | 131 | 14 | 91 | 0 | 0 | 105 | 2 | 236 | 238 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 97 | 10 | 0 | 107 | 18 | 68 | 0 | 0 | 86 | 0 | 193 | 193 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 78 | 10 | 0 | 88 | 6 | 49 | 0 | 0 | 55 | 0 | 143 | 143 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 458 | 46 | 3 | 504 | 59 | 289 | 0 | 0 | 348 | 3 | 852 | 855 |
| Grand Total | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 2408 | 201 | 21 | 2609 | 535 | 1620 | 0 | 24 | 2155 | 65 | 4764 | 4829 |
| Apprch % | 0.0 | 0.0 | 0.0 | | | 0.0 | 0.0 | 0.0 | | | 0.0 | 92.3 | 7.7 | | | 24.8 | 75.2 | 0.0 | | | | | |
| Total % | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 50.5 | 4.2 | | 54.8 | 11.2 | 34.0 | 0.0 | | 45.2 | 1.3 | 98.7 | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : Church St. & Sunset Ave
Site Code : 01421101
Start Date : 5/21/2003
Page No : 2

| | Church St. Southbound | | | | Sunset Ave. Westbound | | | | Church St. Northbound | | | | Sunset Ave. Eastbound | | | | |
|---|--------------------------|------|-------|---------------|--------------------------|------|-------|---------------|--------------------------|------|-------|---------------|--------------------------|------|-------|---------------|---------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 07:45 AM | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 400 | 30 | 430 | 115 | 200 | 0 | 315 | 745 |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 93.0 | 7.0 | | 36.5 | 63.5 | 0.0 | | |
| 08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 11 | 116 | 35 | 46 | 0 | 81 | 197 |
| Volume | | | | | | | | | | | | | | | | | |
| Peak Factor | | | | | | | | | | | | | | | | | 0.945 |
| High Int. | 6:45:00 AM | | | | 6:45:00 AM | | | | 08:00 AM | | | | 07:45 AM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 11 | 116 | 21 | 63 | 0 | 84 | |
| Peak Factor | | | | | | | | | | | | 0.927 | | | | 0.938 | |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 07:00 AM | | | | 07:00 AM | | | | 07:45 AM | | | | 07:45 AM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 400 | 30 | 430 | 115 | 200 | 0 | 315 | |
| Percent | - | - | - | | - | - | - | | 0.0 | 93.0 | 7.0 | | 36.5 | 63.5 | 0.0 | | |
| High Int. | - | - | - | | - | - | - | | 08:00 AM | | | | 07:45 AM | | | | |
| Volume | - | - | - | - | - | - | - | - | 0 | 105 | 11 | 116 | 21 | 63 | 0 | 84 | |
| Peak Factor | | | | | | | | | | | | 0.927 | | | | 0.938 | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 12:00 PM | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 446 | 40 | 486 | 114 | 331 | 0 | 445 | 931 |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 91.8 | 8.2 | | 25.6 | 74.4 | 0.0 | | |
| 12:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130 | 9 | 139 | 27 | 82 | 0 | 109 | 248 |
| Volume | | | | | | | | | | | | | | | | | |
| Peak Factor | | | | | | | | | | | | | | | | | 0.939 |
| High Int. | | | | | | | | | 12:15 PM | | | | 12:30 PM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130 | 9 | 139 | 27 | 93 | 0 | 120 | |
| Peak Factor | | | | | | | | | | | | 0.874 | | | | 0.927 | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 11:00 AM | | | | 11:00 AM | | | | 11:30 AM | | | | 11:45 AM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 450 | 39 | 489 | 108 | 339 | 0 | 447 | |
| Percent | - | - | - | | - | - | - | | 0.0 | 92.0 | 8.0 | | 24.2 | 75.8 | 0.0 | | |
| High Int. | - | - | - | | - | - | - | | 12:15 PM | | | | 12:30 PM | | | | |
| Volume | - | - | - | - | - | - | - | - | 0 | 130 | 9 | 139 | 27 | 93 | 0 | 120 | |
| Peak Factor | | | | | | | | | | | | 0.879 | | | | 0.931 | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 04:15 PM | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 509 | 39 | 548 | 97 | 332 | 0 | 429 | 977 |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 92.9 | 7.1 | | 22.6 | 77.4 | 0.0 | | |
| 05:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 163 | 15 | 178 | 21 | 81 | 0 | 102 | 280 |
| Volume | | | | | | | | | | | | | | | | | |
| Peak Factor | | | | | | | | | | | | | | | | | 0.872 |
| High Int. | | | | | | | | | 05:00 PM | | | | 04:45 PM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 163 | 15 | 178 | 24 | 89 | 0 | 113 | |
| Peak Factor | | | | | | | | | | | | 0.770 | | | | 0.949 | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 04:00 PM | | | | 04:00 PM | | | | 04:15 PM | | | | 04:00 PM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 509 | 39 | 548 | 100 | 330 | 0 | 430 | |
| Percent | - | - | - | | - | - | - | | 0.0 | 92.9 | 7.1 | | 23.3 | 76.7 | 0.0 | | |
| High Int. | - | - | - | | - | - | - | | 05:00 PM | | | | 04:45 PM | | | | |
| Volume | - | - | - | - | - | - | - | - | 0 | 163 | 15 | 178 | 24 | 89 | 0 | 113 | |
| Peak Factor | | | | | | | | | | | | 0.770 | | | | 0.951 | |

File Name : Franklin St. & Western Ave
Site Code : 01321107
Start Date : 5/27/2003
Page No : 1

| | Franklin St. Southbound | | | | Western Ave Westbound | | | | Northbound | | | | Eastbound | | | | |
|------------|----------------------------|------|-------|---------------|--------------------------|------|-------|---------------|------------|------|-------|---------------|-----------|------|-------|---------------|---------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Factor | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | |
| 07:00 AM | 0 | 37 | 3 | 40 | 3 | 9 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 07:15 AM | 0 | 50 | 0 | 50 | 9 | 21 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 07:30 AM | 0 | 61 | 2 | 63 | 4 | 49 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 116 |
| 07:45 AM | 0 | 98 | 2 | 100 | 2 | 22 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 124 |
| Total | 0 | 246 | 7 | 253 | 18 | 101 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 372 |
| 08:00 AM | 0 | 80 | 3 | 83 | 7 | 28 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 118 |
| 08:15 AM | 0 | 90 | 1 | 91 | 15 | 20 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 126 |
| 08:30 AM | 0 | 77 | 1 | 78 | 7 | 16 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 101 |
| 08:45 AM | 0 | 80 | 1 | 81 | 11 | 23 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 115 |
| Total | 0 | 327 | 6 | 333 | 40 | 87 | 0 | 127 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 460 |
| | | | | | | | | | | | | | | | | | |
| 11:00 AM | 0 | 63 | 1 | 64 | 25 | 27 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 116 |
| 11:15 AM | 0 | 81 | 5 | 86 | 19 | 27 | 0 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 132 |
| 11:30 AM | 0 | 87 | 2 | 89 | 14 | 26 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 129 |
| 11:45 AM | 0 | 89 | 8 | 97 | 15 | 37 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 149 |
| Total | 0 | 320 | 16 | 336 | 73 | 117 | 0 | 190 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 526 |
| | | | | | | | | | | | | | | | | | |
| 12:00 PM | 0 | 93 | 9 | 102 | 16 | 32 | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 |
| 12:15 PM | 0 | 109 | 7 | 116 | 15 | 47 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 178 |
| 12:30 PM | 0 | 101 | 8 | 109 | 13 | 44 | 0 | 57 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 166 |
| 12:45 PM | 0 | 95 | 8 | 103 | 17 | 55 | 0 | 72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 175 |
| Total | 0 | 398 | 32 | 430 | 61 | 178 | 0 | 239 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 669 |
| | | | | | | | | | | | | | | | | | |
| 04:00 PM | 0 | 90 | 1 | 91 | 14 | 29 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 134 |
| 04:15 PM | 0 | 96 | 3 | 99 | 12 | 31 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 142 |
| 04:30 PM | 0 | 77 | 2 | 79 | 10 | 34 | 0 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 123 |
| 04:45 PM | 0 | 80 | 4 | 84 | 9 | 23 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 116 |
| Total | 0 | 343 | 10 | 353 | 45 | 117 | 0 | 162 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 515 |
| | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 127 | 6 | 133 | 18 | 49 | 0 | 67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200 |
| 05:15 PM | 0 | 79 | | | | | | | | | | | | | | | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : Franklin St. & Western Ave
Site Code : 01321107
Start Date : 5/27/2003
Page No : 2

| | Franklin St. Southbound | | | | Western Ave Westbound | | | | Northbound | | | | Eastbound | | | | |
|---|----------------------------|------|-------|---------------|--------------------------|------|-------|---------------|------------|------|-------|---------------|------------|------|-------|---------------|---------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 07:30 AM | | | | | | | | | | | | | | | | 484 |
| Volume | 0 | 329 | 8 | 337 | 28 | 119 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 97.6 | 2.4 | | 19.0 | 81.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 08:15 | 0 | 90 | 1 | 91 | 15 | 20 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 126 |
| Volume | | | | | | | | | | | | | | | | | |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 07:45 AM | | | | 07:30 AM | | | | 6:45:00 AM | | | | 6:45:00 AM | | | | |
| Volume | 0 | 98 | 2 | 100 | 4 | 49 | 0 | 53 | | | | | | | | | |
| Peak Factor | 0.843 | | | | 0.693 | | | | | | | | | | | | |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 07:45 AM | | | | 07:30 AM | | | | 07:00 AM | | | | 07:00 AM | | | | |
| Volume | 0 | 345 | 7 | 352 | 28 | 119 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 98.0 | 2.0 | | 19.0 | 81.0 | 0.0 | | - | - | - | - | - | - | - | - | |
| High Int. | 07:45 AM | | | | 07:30 AM | | | | | | | | | | | | |
| Volume | 0 | 98 | 2 | 100 | 4 | 49 | 0 | 53 | - | - | - | - | - | - | - | - | |
| Peak Factor | 0.880 | | | | 0.693 | | | | | | | | | | | | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 12:00 PM | | | | | | | | | | | | | | | | 669 |
| Volume | 0 | 398 | 32 | 430 | 61 | 178 | 0 | 239 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 92.6 | 7.4 | | 25.5 | 74.5 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 12:15 | 0 | 109 | 7 | 116 | 15 | 47 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 178 |
| Volume | | | | | | | | | | | | | | | | | |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 12:15 PM | | | | 12:45 PM | | | | | | | | | | | | |
| Volume | 0 | 109 | 7 | 116 | 17 | 55 | 0 | 72 | | | | | | | | | |
| Peak Factor | 0.927 | | | | 0.830 | | | | | | | | | | | | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 12:00 PM | | | | 12:00 PM | | | | 11:00 AM | | | | 11:00 AM | | | | |
| Volume | 0 | 398 | 32 | 430 | 61 | 178 | 0 | 239 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 92.6 | 7.4 | | 25.5 | 74.5 | 0.0 | | - | - | - | - | - | - | - | - | |
| High Int. | 12:15 PM | | | | 12:45 PM | | | | | | | | | | | | |
| Volume | 0 | 109 | 7 | 116 | 17 | 55 | 0 | 72 | - | - | - | - | - | - | - | - | |
| Peak Factor | 0.927 | | | | 0.830 | | | | | | | | | | | | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 04:15 PM | | | | | | | | | | | | | | | | 581 |
| Volume | 0 | 380 | 15 | 395 | 49 | 137 | 0 | 186 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 96.2 | 3.8 | | 26.3 | 73.7 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 05:00 | 0 | 127 | 6 | 133 | 18 | 49 | 0 | 67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200 |
| Volume | | | | | | | | | | | | | | | | | |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 05:00 PM | | | | 05:00 PM | | | | | | | | | | | | |
| Volume | 0 | 127 | 6 | 133 | 18 | 49 | 0 | 67 | | | | | | | | | |
| Peak Factor | 0.742 | | | | 0.694 | | | | | | | | | | | | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 04:15 PM | | | | 04:30 PM | | | | 04:00 PM | | | | 04:00 PM | | | | |
| Volume | 0 | 380 | 15 | 395 | 47 | 150 | 0 | 197 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 96.2 | 3.8 | | 23.9 | 76.1 | 0.0 | | - | - | - | - | - | - | - | - | |
| High Int. | 05:00 PM | | | | 05:00 PM | | | | | | | | | | | | |
| Volume | 0 | 127 | 6 | 133 | 18 | 49 | 0 | 67 | - | - | - | - | - | - | - | - | |
| Peak Factor | 0.742 | | | | 0.735 | | | | | | | | | | | | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : Church St. & Western Ave
Site Code : 01321102
Start Date : 5/20/2003
Page No : 1

Groups Printed- Unshifted

| Start Time | Southbound | | | | | Western Ave. Westbound | | | | | Church St. Northbound | | | | | Eastbound | | | | | Excl u. Total | Inclu. Total | Int. Total |
|-------------|------------|------|-------|------|------------|------------------------|------|-------|------|------------|-----------------------|------|-------|------|------------|-----------|------|-------|------|------------|---------------|--------------|------------|
| | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | | | |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | | | |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 9 | 0 | 31 | 5 | 47 | 0 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 83 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 4 | 1 | 27 | 2 | 59 | 0 | 1 | 61 | 0 | 0 | 0 | 0 | 0 | 2 | 88 | 90 |
| 07:30 AM | 0 | 0 | 0 | 2 | 0 | 0 | 36 | 9 | 0 | 45 | 7 | 69 | 0 | 0 | 76 | 0 | 0 | 0 | 0 | 0 | 2 | 121 | 123 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 17 | 0 | 34 | 8 | 92 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 134 | 134 |
| Total | 0 | 0 | 0 | 2 | 0 | 0 | 98 | 39 | 1 | 137 | 22 | 267 | 0 | 1 | 289 | 0 | 0 | 0 | 0 | 0 | 4 | 426 | 430 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 21 | 0 | 60 | 12 | 83 | 0 | 1 | 95 | 0 | 0 | 0 | 0 | 0 | 1 | 155 | 156 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 23 | 0 | 48 | 11 | 70 | 0 | 0 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 129 | 129 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 23 | 0 | 37 | 7 | 91 | 0 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 135 | 135 |
| 08:45 AM | 0 | 0 | 0 | 1 | 0 | 0 | 26 | 30 | 1 | 56 | 6 | 84 | 0 | 1 | 90 | 0 | 0 | 0 | 0 | 0 | 3 | 146 | 149 |
| Total | 0 | 0 | 0 | 1 | 0 | 0 | 104 | 97 | 1 | 201 | 36 | 328 | 0 | 2 | 364 | 0 | 0 | 0 | 0 | 0 | 4 | 565 | 569 |
| 11:00 AM | 0 | 0 | 0 | 1 | 0 | 0 | 20 | 17 | 0 | 37 | 22 | 106 | 0 | 0 | 128 | 0 | 0 | 0 | 3 | 0 | 4 | 165 | 169 |
| 11:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 23 | 0 | 65 | 13 | 119 | 0 | 0 | 132 | 0 | 0 | 0 | 0 | 0 | 0 | 197 | 197 |
| 11:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 41 | 0 | 75 | 7 | 84 | 0 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 0 | 166 | 166 |
| 11:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 22 | 1 | 72 | 9 | 125 | 0 | 0 | 134 | 0 | 0 | 0 | 0 | 0 | 1 | 206 | 207 |
| Total | 0 | 0 | 0 | 1 | 0 | 0 | 146 | 103 | 1 | 249 | 51 | 434 | 0 | 0 | 485 | 0 | 0 | 0 | 3 | 0 | 5 | 734 | 739 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 18 | 1 | 54 | 32 | 136 | 0 | 0 | 168 | 0 | 0 | 0 | 0 | 0 | 1 | 222 | 223 |
| 12:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 14 | 0 | 52 | 13 | 104 | 0 | 0 | 117 | 0 | 0 | 0 | 0 | 0 | 0 | 169 | 169 |
| 12:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 31 | 0 | 72 | 6 | 90 | 0 | 0 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 168 | 168 |
| 12:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 31 | 0 | 56 | 24 | 141 | 0 | 0 | 165 | 0 | 0 | 0 | 0 | 0 | 0 | 221 | 221 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 140 | 94 | 1 | 234 | 75 | 471 | 0 | 0 | 546 | 0 | 0 | 0 | 0 | 0 | 1 | 780 | 781 |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 16 | 0 | 33 | 16 | 94 | 0 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 143 | 143 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 24 | 0 | 55 | 10 | 95 | 0 | 0 | 105 | 0 | 0 | 0 | 0 | 0 | 0 | 160 | 160 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 24 | 0 | 65 | 18 | 137 | 0 | 0 | 155 | 0 | 0 | 0 | 0 | 0 | 0 | 220 | 220 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 20 | 0 | 49 | 5 | 136 | 0 | 0 | 141 | 0 | 0 | 0 | 0 | 0 | 0 | 190 | 190 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 118 | 84 | 0 | 202 | 49 | 462 | 0 | 0 | 511 | 0 | 0 | 0 | 0 | 0 | 0 | 713 | 713 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 35 | 0 | 70 | 7 | 195 | 0 | 0 | 202 | 0 | 0 | 0 | 0 | 0 | 0 | 272 | 272 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 10 | 0 | 46 | 4 | 171 | 0 | 0 | 175 | 0 | 0 | 0 | 0 | 0 | 0 | 221 | 221 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 16 | 0 | 47 | 13 | 122 | 0 | 0 | 135 | 0 | 0 | 0 | 0 | 0 | 0 | 182 | 182 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 39 | 0 | 75 | 14 | 77 | 0 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 0 | 166 | 166 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 138 | 100 | 0 | 238 | 38 | 565 | 0 | 0 | 603 | 0 | 0 | 0 | 0 | 0 | 0 | 841 | 841 |
| Grand Total | 0 | 0 | 0 | 4 | 0 | 0 | 744 | 517 | 4 | 1261 | 271 | 2527 | 0 | 3 | 2798 | 0 | 0 | 0 | 3 | 0 | 14 | 4059 | 4073 |
| Apprch % | 0.0 | 0.0 | 0.0 | | | 0.0 | 59.0 | 41.0 | | | 9.7 | 90.3 | 0.0 | | | 0.0 | 0.0 | 0.0 | | | | | |
| Total % | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 18.3 | 12.7 | | 31.1 | 6.7 | 62.3 | 0.0 | | 68.9 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.3 | 99.7 | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : Church St. & Western Ave
Site Code : 01321102
Start Date : 5/20/2003
Page No : 2

| | Southbound | | | | Western Ave. Westbound | | | | Church St. Northbound | | | | Eastbound | | | | |
|---|------------|------|-------|---------------|---------------------------|------|-------|---------------|--------------------------|------|-------|---------------|------------|------|-------|---------------|---------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 08:00 AM | | | | | | | | | | | | | | | | 565 |
| Volume | 0 | 0 | 0 | 0 | 0 | 104 | 97 | 201 | 36 | 328 | 0 | 364 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 51.7 | 48.3 | | 9.9 | 90.1 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 08:00 | 0 | 0 | 0 | 0 | 0 | 39 | 21 | 60 | 12 | 83 | 0 | 95 | 0 | 0 | 0 | 0 | 155 |
| Volume | | | | | | | | | | | | | | | | | |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 6:45:00 AM | | | | 08:00 AM | | | | 08:30 AM | | | | 6:45:00 AM | | | | 0.911 |
| Volume | 0 | 0 | 0 | 0 | 0 | 39 | 21 | 60 | 7 | 91 | 0 | 98 | | | | | |
| Peak Factor | | | | | | | | 0.838 | | | | 0.929 | | | | | |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 07:00 AM | | | | 08:00 AM | | | | 07:45 AM | | | | 07:00 AM | | | | 0 |
| Volume | 0 | 0 | 0 | 0 | 0 | 104 | 97 | 201 | 38 | 336 | 0 | 374 | 0 | 0 | 0 | 0 | |
| Percent | - | - | - | | 0.0 | 51.7 | 48.3 | | 10.2 | 89.8 | 0.0 | | - | - | - | | |
| High Int. | - | - | - | | 08:00 AM | | | | 07:45 AM | | | | - | - | - | - | - |
| Volume | - | - | - | - | 0 | 39 | 21 | 60 | 8 | 92 | 0 | 100 | - | - | - | - | |
| Peak Factor | - | - | - | - | | | | 0.838 | | | | 0.935 | - | - | - | - | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 11:15 AM | | | | | | | | | | | | | | | | 791 |
| Volume | 0 | 0 | 0 | 0 | 0 | 162 | 104 | 266 | 61 | 464 | 0 | 525 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 60.9 | 39.1 | | 11.6 | 88.4 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 12:00 | 0 | 0 | 0 | 0 | 0 | 36 | 18 | 54 | 32 | 136 | 0 | 168 | 0 | 0 | 0 | 0 | 222 |
| Volume | | | | | | | | | | | | | | | | | |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | | | | | 11:30 AM | | | | 12:00 PM | | | | | | | | 0.891 |
| Volume | 0 | 0 | 0 | 0 | 0 | 34 | 41 | 75 | 32 | 136 | 0 | 168 | | | | | |
| Peak Factor | | | | | | | | 0.887 | | | | 0.781 | | | | | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 11:00 AM | | | | 11:15 AM | | | | 12:00 PM | | | | 11:00 AM | | | | 0 |
| Volume | 0 | 0 | 0 | 0 | 0 | 162 | 104 | 266 | 75 | 471 | 0 | 546 | 0 | 0 | 0 | 0 | |
| Percent | - | - | - | | 0.0 | 60.9 | 39.1 | | 13.7 | 86.3 | 0.0 | | - | - | - | | |
| High Int. | - | - | - | | 11:30 AM | | | | 12:00 PM | | | | - | - | - | - | - |
| Volume | - | - | - | - | 0 | 34 | 41 | 75 | 32 | 136 | 0 | 168 | - | - | - | - | |
| Peak Factor | - | - | - | - | | | | 0.887 | | | | 0.813 | - | - | - | - | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 04:30 PM | | | | | | | | | | | | | | | | 903 |
| Volume | 0 | 0 | 0 | 0 | 0 | 141 | 89 | 230 | 34 | 639 | 0 | 673 | 0 | 0 | 0 | 0 | |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 61.3 | 38.7 | | 5.1 | 94.9 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 05:00 | 0 | 0 | 0 | 0 | 0 | 35 | 35 | 70 | 7 | 195 | 0 | 202 | 0 | 0 | 0 | 0 | 272 |
| Volume | | | | | | | | | | | | | | | | | |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | | | | | 05:00 PM | | | | 05:00 PM | | | | | | | | 0.830 |
| Volume | 0 | 0 | 0 | 0 | 0 | 35 | 35 | 70 | 7 | 195 | 0 | 202 | | | | | |
| Peak Factor | | | | | | | | 0.821 | | | | 0.833 | | | | | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 04:00 PM | | | | 04:15 PM | | | | 04:30 PM | | | | 04:00 PM | | | | 0 |
| Volume | 0 | 0 | 0 | 0 | 0 | 136 | 103 | 239 | 34 | 639 | 0 | 673 | 0 | 0 | 0 | 0 | |
| Percent | - | - | - | | 0.0 | 56.9 | 43.1 | | 5.1 | 94.9 | 0.0 | | - | - | - | | |
| High Int. | - | - | - | | 05:00 PM | | | | 05:00 PM | | | | - | - | - | - | - |
| Volume | - | - | - | - | 0 | 35 | 35 | 70 | 7 | 195 | 0 | 202 | - | - | - | - | |
| Peak Factor | - | - | - | - | | | | 0.854 | | | | 0.833 | - | - | - | - | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : Franklin St. & Nash S
Site Code : 01321106
Start Date : 5/27/2003
Page No : 1

Groups Printed- Unshifted

| Start Time | Franklin St. Southbound | | | | Westbound | | | | Northbound | | | | Nash St. Eastbound | | | | Int. Total |
|-------------|----------------------------|------|-------|---------------|-----------|------|-------|---------------|------------|------|-------|---------------|-----------------------|------|-------|---------------|---------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| Factor | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | | |
| 07:00 AM | 11 | 29 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 1 | 11 | 51 |
| 07:15 AM | 18 | 42 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 2 | 15 | 75 |
| 07:30 AM | 26 | 40 | 0 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 3 | 31 | 97 |
| 07:45 AM | 37 | 67 | 0 | 104 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 5 | 27 | 131 |
| Total | 92 | 178 | 0 | 270 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 73 | 11 | 84 | 354 |
| 08:00 AM | 45 | 45 | 0 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 3 | 21 | 111 |
| 08:15 AM | 26 | 76 | 0 | 102 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 9 | 25 | 127 |
| 08:30 AM | 30 | 57 | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 3 | 13 | 100 |
| 08:45 AM | 27 | 58 | 0 | 85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 4 | 24 | 109 |
| Total | 128 | 236 | 0 | 364 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 | 19 | 83 | 447 |
| 11:00 AM | 32 | 46 | 0 | 78 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 9 | 28 | 106 |
| 11:15 AM | 29 | 66 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 3 | 26 | 121 |
| 11:30 AM | 34 | 65 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 3 | 14 | 113 |
| 11:45 AM | 35 | 69 | 0 | 104 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 5 | 19 | 123 |
| Total | 130 | 246 | 0 | 376 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 | 20 | 87 | 463 |
| 12:00 PM | 46 | 61 | 0 | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 5 | 28 | 135 |
| 12:15 PM | 35 | 82 | 0 | 117 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 3 | 38 | 155 |
| 12:30 PM | 33 | 73 | 0 | 106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 7 | 37 | 143 |
| 12:45 PM | 34 | 82 | 0 | 116 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 7 | 52 | 168 |
| Total | 148 | 298 | 0 | 446 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 133 | 22 | 155 | 601 |
| 04:00 PM | 30 | 69 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 4 | 24 | 123 |
| 04:15 PM | 31 | 75 | 0 | 106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 3 | 19 | 125 |
| 04:30 PM | 31 | 53 | 0 | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 3 | 20 | 104 |
| 04:45 PM | 23 | 68 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 3 | 13 | 104 |
| Total | 115 | 265 | 0 | 380 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 13 | 76 | 456 |
| 05:00 PM | 39 | 108 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 7 | 17 | 164 |
| 05:15 PM | 19 | 73 | 0 | 92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 6 | 17 | 109 |
| 05:30 PM | 25 | 64 | 0 | 89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 9 | 16 | 105 |
| 05:45 PM | 14 | 39 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 5 | 11 | 64 |
| Total | 97 | 284 | 0 | 381 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 27 | 61 | 442 |
| Grand Total | 710 | 1507 | 0 | 2217 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 434 | 112 | 546 | 2763 |
| Apprch % | 32.0 | 68.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 79.5 | 20.5 | | |
| Total % | 25.7 | 54.5 | 0.0 | 80.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.7 | 4.1 | 19.8 | |

File Name : Franklin St. & Nash S
Site Code : 01321106
Start Date : 5/27/2003
Page No : 2

| | Franklin St. Southbound | | | | Westbound | | | | Northbound | | | | Nash St. Eastbound | | | | |
|---|----------------------------|------|-------|---------------|------------|------|-------|---------------|------------|------|-------|---------------|-----------------------|------|-------|---------------|---------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 07:45 AM | | | | | | | | | | | | | | | | |
| Volume | 138 | 245 | 0 | 383 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 66 | 20 | 86 | 469 |
| Percent | 36.0 | 64.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 76.7 | 23.3 | | |
| 07:45 | 37 | 67 | 0 | 104 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 5 | 27 | 131 |
| Volume | | | | | | | | | | | | | | | | | 0.895 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 07:45 AM | | | | 6:45:00 AM | | | | 6:45:00 AM | | | | 07:45 AM | | | | |
| Volume | 37 | 67 | 0 | 104 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 5 | 27 | |
| Peak Factor | 0.921 | | | | | | | | | | | | 0.796 | | | | |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 07:45 AM | | | | 07:00 AM | | | | 07:00 AM | | | | 07:30 AM | | | | |
| Volume | 138 | 245 | 0 | 383 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | 20 | 104 | |
| Percent | 36.0 | 64.0 | 0.0 | | - | - | - | - | - | - | - | - | 0.0 | 80.8 | 19.2 | | |
| High Int. | 07:45 AM | | | | - | | | | - | | | | 07:30 AM | | | | |
| Volume | 37 | 67 | 0 | 104 | - | - | - | - | - | - | - | - | 0 | 28 | 3 | 31 | |
| Peak Factor | 0.921 | | | | - | | | | - | | | | 0.839 | | | | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 12:00 PM | | | | | | | | | | | | | | | | |
| Volume | 148 | 298 | 0 | 446 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 133 | 22 | 155 | 601 |
| Percent | 33.2 | 66.8 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 85.8 | 14.2 | | |
| 12:45 | 34 | 82 | 0 | 116 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 7 | 52 | 168 |
| Volume | | | | | | | | | | | | | | | | | 0.894 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 12:15 PM | | | | | | | | | | | | 12:45 PM | | | | |
| Volume | 35 | 82 | 0 | 117 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 7 | 52 | |
| Peak Factor | 0.953 | | | | | | | | | | | | 0.745 | | | | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 12:00 PM | | | | 11:00 AM | | | | 11:00 AM | | | | 12:00 PM | | | | |
| Volume | 148 | 298 | 0 | 446 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 133 | 22 | 155 | |
| Percent | 33.2 | 66.8 | 0.0 | | - | - | - | - | - | - | - | - | 0.0 | 85.8 | 14.2 | | |
| High Int. | 12:15 PM | | | | - | | | | - | | | | 12:45 PM | | | | |
| Volume | 35 | 82 | 0 | 117 | - | - | - | - | - | - | - | - | 0 | 45 | 7 | 52 | |
| Peak Factor | 0.953 | | | | - | | | | - | | | | 0.745 | | | | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 04:15 PM | | | | | | | | | | | | | | | | |
| Volume | 124 | 304 | 0 | 428 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 | 16 | 69 | 497 |
| Percent | 29.0 | 71.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 76.8 | 23.2 | | |
| 05:00 | 39 | 108 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 7 | 17 | 164 |
| Volume | | | | | | | | | | | | | | | | | 0.758 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 05:00 PM | | | | | | | | | | | | 04:30 PM | | | | |
| Volume | 39 | 108 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 3 | 20 | |
| Peak Factor | 0.728 | | | | | | | | | | | | 0.863 | | | | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 04:15 PM | | | | 04:00 PM | | | | 04:00 PM | | | | 04:00 PM | | | | |
| Volume | 124 | 304 | 0 | 428 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 13 | 76 | |
| Percent | 29.0 | 71.0 | 0.0 | | - | - | - | - | - | - | - | - | 0.0 | 82.9 | 17.1 | | |
| High Int. | 05:00 PM | | | | - | | | | - | | | | 04:00 PM | | | | |
| Volume | 39 | 108 | 0 | 147 | - | - | - | - | - | - | - | - | 0 | 20 | 4 | 24 | |
| Peak Factor | 0.728 | | | | - | | | | - | | | | 0.792 | | | | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : Church St. & Nash S
Site Code : 01321101
Start Date : 5/20/2003
Page No : 1

Groups Printed- Unshifted

| Start Time | Church St. Southbound | | | | | Nash St. Westbound | | | | | Church St. Northbound | | | | | Nash St. Eastbound | | | | | Excl u. Total | Inclu. Total | Int. Total |
|-------------|-----------------------|------|-------|------|------------|--------------------|------|-------|------|------------|-----------------------|------|-------|------|------------|--------------------|------|-------|------|------------|---------------|--------------|------------|
| | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | | | |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | | | |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 3 | 0 | 38 | 3 | 10 | 0 | 0 | 13 | 0 | 51 | 51 |
| 07:15 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 4 | 1 | 64 | 2 | 22 | 0 | 0 | 24 | 2 | 88 | 90 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65 | 7 | 0 | 72 | 7 | 24 | 0 | 1 | 31 | 1 | 103 | 104 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 10 | 0 | 92 | 7 | 39 | 0 | 0 | 46 | 0 | 138 | 138 |
| Total | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 242 | 24 | 1 | 266 | 19 | 95 | 0 | 1 | 114 | 3 | 380 | 383 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 71 | 12 | 0 | 83 | 10 | 28 | 0 | 0 | 38 | 0 | 121 | 121 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 9 | 1 | 64 | 6 | 25 | 0 | 1 | 31 | 2 | 95 | 97 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 69 | 7 | 2 | 76 | 13 | 13 | 0 | 0 | 26 | 3 | 102 | 105 |
| 08:45 AM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 90 | 8 | 1 | 98 | 8 | 6 | 0 | 2 | 14 | 5 | 112 | 117 |
| Total | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 285 | 36 | 4 | 321 | 37 | 72 | 0 | 3 | 109 | 10 | 430 | 440 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 77 | 4 | 4 | 81 | 19 | 17 | 0 | 0 | 36 | 4 | 117 | 121 |
| 11:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 68 | 4 | 2 | 72 | 18 | 19 | 0 | 0 | 37 | 4 | 109 | 113 |
| 11:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 76 | 8 | 0 | 84 | 15 | 17 | 0 | 0 | 32 | 1 | 116 | 117 |
| 11:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 12 | 0 | 100 | 23 | 32 | 0 | 0 | 55 | 0 | 155 | 155 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 309 | 28 | 6 | 337 | 75 | 85 | 0 | 0 | 160 | 9 | 497 | 506 |
| 12:00 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 13 | 0 | 101 | 26 | 21 | 0 | 1 | 47 | 2 | 148 | 150 |
| 12:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 | 9 | 1 | 88 | 24 | 19 | 0 | 0 | 43 | 1 | 131 | 132 |
| 12:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 15 | 1 | 73 | 23 | 27 | 0 | 0 | 50 | 1 | 123 | 124 |
| 12:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 7 | 1 | 77 | 25 | 39 | 0 | 2 | 64 | 3 | 141 | 144 |
| Total | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 295 | 44 | 3 | 339 | 98 | 106 | 0 | 3 | 204 | 7 | 543 | 550 |
| 04:00 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 88 | 6 | 1 | 94 | 17 | 25 | 0 | 0 | 42 | 3 | 136 | 139 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 13 | 1 | 95 | 17 | 27 | 0 | 1 | 44 | 2 | 139 | 141 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 9 | 0 | 99 | 17 | 24 | 0 | 0 | 41 | 0 | 140 | 140 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 91 | 10 | 3 | 101 | 13 | 23 | 0 | 0 | 36 | 5 | 137 | 142 |
| Total | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 351 | 38 | 5 | 389 | 64 | 99 | 0 | 1 | 163 | 10 | 552 | 562 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 121 | 16 | 0 | 137 | 11 | 40 | 0 | 0 | 51 | 1 | 188 | 189 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 81 | 11 | 0 | 92 | 11 | 17 | 0 | 0 | 28 | 0 | 120 | 120 |
| 05:30 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 66 | 6 | 1 | 72 | 5 | 33 | 0 | 4 | 38 | 7 | 110 | 117 |
| 05:45 PM | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 11 | 0 | 66 | 7 | 12 | 0 | 0 | 19 | 2 | 85 | 87 |
| Total | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 323 | 44 | 1 | 367 | 34 | 102 | 0 | 4 | 136 | 10 | 503 | 513 |
| Grand Total | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 1805 | 214 | 20 | 2019 | 327 | 559 | 0 | 12 | 886 | 49 | 2905 | 2954 |
| Apprch % | 0.0 | 0.0 | 0.0 | | | 0.0 | 0.0 | 0.0 | | | 0.0 | 89.4 | 10.6 | | | 36.9 | 63.1 | 0.0 | | | | | |
| Total % | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 62.1 | 7.4 | | 69.5 | 11.3 | 19.2 | 0.0 | | 30.5 | 1.7 | 98.3 | |

City of Rocky Mount
Engineering Dept.
One Government Plaza
Rocky Mount, NC 27804

File Name : Church St. & Nash S
Site Code : 01321101
Start Date : 5/20/2003
Page No : 2

| | Church St. Southbound | | | | Nash St. Westbound | | | | Church St. Northbound | | | | Nash St. Eastbound | | | | |
|---|--------------------------|------|-------|---------------|-----------------------|------|-------|---------------|--------------------------|------|-------|---------------|-----------------------|------|-------|---------------|---------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 07:30 AM | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 273 | 38 | 311 | 30 | 116 | 0 | 146 | 457 |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 87.8 | 12.2 | | 20.5 | 79.5 | 0.0 | | |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 10 | 92 | 7 | 39 | 0 | 46 | 138 |
| Volume | | | | | | | | | | | | | | | | | 0.828 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | 6:45:00 AM | | | | 6:45:00 AM | | | | 07:45 AM | | | | 07:45 AM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 10 | 92 | 7 | 39 | 0 | 46 | |
| Peak Factor | | | | | | | | | | | | 0.845 | | | | 0.793 | |
| Peak Hour From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 07:00 AM | | | | 07:00 AM | | | | 08:00 AM | | | | 07:30 AM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 285 | 36 | 321 | 30 | 116 | 0 | 146 | |
| Percent | - | - | - | - | - | - | - | - | 0.0 | 88.8 | 11.2 | | 20.5 | 79.5 | 0.0 | | |
| High Int. | - | - | - | - | - | - | - | - | 08:45 AM | | | | 07:45 AM | | | | |
| Volume | - | - | - | - | - | - | - | - | 0 | 90 | 8 | 98 | 7 | 39 | 0 | 46 | |
| Peak Factor | - | - | - | - | - | - | - | - | | | | 0.819 | | | | 0.793 | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 11:45 AM | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 313 | 49 | 362 | 96 | 99 | 0 | 195 | 557 |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 86.5 | 13.5 | | 49.2 | 50.8 | 0.0 | | |
| 11:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 12 | 100 | 23 | 32 | 0 | 55 | 155 |
| Volume | | | | | | | | | | | | | | | | | 0.898 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | | | | | | | | | 12:00 PM | | | | 11:45 AM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 13 | 101 | 23 | 32 | 0 | 55 | |
| Peak Factor | | | | | | | | | | | | 0.896 | | | | 0.886 | |
| Peak Hour From 11:00 AM to 12:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 11:00 AM | | | | 11:00 AM | | | | 11:30 AM | | | | 12:00 PM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 331 | 42 | 373 | 98 | 106 | 0 | 204 | |
| Percent | - | - | - | - | - | - | - | - | 0.0 | 88.7 | 11.3 | | 48.0 | 52.0 | 0.0 | | |
| High Int. | - | - | - | - | - | - | - | - | 12:00 PM | | | | 12:45 PM | | | | |
| Volume | - | - | - | - | - | - | - | - | 0 | 88 | 13 | 101 | 25 | 39 | 0 | 64 | |
| Peak Factor | - | - | - | - | - | - | - | - | | | | 0.923 | | | | 0.797 | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 04:15 PM | | | | | | | | | | | | | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 384 | 48 | 432 | 58 | 114 | 0 | 172 | 604 |
| Percent | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 88.9 | 11.1 | | 33.7 | 66.3 | 0.0 | | |
| 05:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 121 | 16 | 137 | 11 | 40 | 0 | 51 | 188 |
| Volume | | | | | | | | | | | | | | | | | 0.803 |
| Peak Factor | | | | | | | | | | | | | | | | | |
| High Int. | | | | | | | | | 05:00 PM | | | | 05:00 PM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 121 | 16 | 137 | 11 | 40 | 0 | 51 | |
| Peak Factor | | | | | | | | | | | | 0.788 | | | | 0.843 | |
| Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| By Approach | 04:00 PM | | | | 04:00 PM | | | | 04:15 PM | | | | 04:15 PM | | | | |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 384 | 48 | 432 | 58 | 114 | 0 | 172 | |
| Percent | - | - | - | - | - | - | - | - | 0.0 | 88.9 | 11.1 | | 33.7 | 66.3 | 0.0 | | |
| High Int. | - | - | - | - | - | - | - | - | 05:00 PM | | | | 05:00 PM | | | | |
| Volume | - | - | - | - | - | - | - | - | 0 | 121 | 16 | 137 | 11 | 40 | 0 | 51 | |
| Peak Factor | - | - | - | - | - | - | - | - | | | | 0.788 | | | | 0.843 | |

APPENDIX C:
LAND USE DATA AND TRIP GENERATION

Land Use and Trip Generation Detail

| Building | Pin No. | No. Floors | blockid | First Floor Daily Trips | First Floor | First Floor | First Floor | First Floor | First Floor | First Floor | Second Floor | Second Floor | Second Floor | Second Floor | Second Floor | Third Floor | Third Floor | Third Floor | Third Floor | Third Floor | Second Floor | Second Floor | Second Floor | Second Floor | Second Floor | Second Floor | Second Floor | |
|---------------|---------|------------|---------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| | | | | | AM Peak | AM Peak | AM Peak | AM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak | PM Peak |
| | | | | | In | Out | Total | Total | Total | Total | Daily Trips | Peak In | Peak Out | Peak Total | Peak Total | Daily Trips | Peak In | Peak Out | Peak Total | Peak Total | Daily Trips | Peak In | Peak Out | Peak Total | Daily Trips | Peak In | Peak Out | Peak Total |
| 375907587613 | 1 | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 375925589950 | 1 | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 375925598214 | 1 | 108 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 375925598373 | 1 | 108 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 375925599675 | 1 | 108 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 375925599159 | 2 | 108 | | 856 | 63 | 89 | 132 | 23 | 33 | 56 | 242 | 2 | 10 | 12 | 19 | 9 | 28 | | | | | 70 | 9 | 1 | 10 | 2 | 8 | 10 |
| 375925599259 | 2 | 108 | | 373 | 28 | 30 | 58 | 10 | 14 | 24 | 182 | 1 | 6 | 7 | 15 | 8 | 23 | | | | | 31 | 4 | 1 | 3 | 1 | 3 | 4 |
| 3759255990273 | 2 | 108 | | 306 | 23 | 25 | 47 | 8 | 12 | 20 | 170 | 1 | 5 | 6 | 15 | 7 | 22 | | | | | 25 | 3 | 0 | 3 | 1 | 3 | 4 |
| 3759255990450 | 2 | 108 | | 50 | 4 | 4 | 8 | 1 | 2 | 3 | 140 | 1 | 3 | 4 | 13 | 6 | 19 | | | | | | | | | | | |
| 3759255990489 | 1 | 108 | | 46 | 3 | 4 | 7 | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | |
| 3759255990674 | 2 | 105 | | 168 | 12 | 13 | 26 | 5 | 6 | 11 | 152 | 1 | 4 | 5 | 14 | 7 | 20 | | | | | 14 | 2 | 0 | 2 | 0 | 2 | 2 |
| 3759255990698 | 2 | 105 | | 218 | 16 | 18 | 34 | 6 | 8 | 14 | 158 | 1 | 4 | 5 | 14 | 7 | 21 | | | | | 18 | 2 | 0 | 2 | 0 | 2 | 2 |
| 3759255990803 | 2 | 105 | | | | | | | | | 140 | 1 | 3 | 4 | 13 | 6 | 19 | | | | | | | | | | | |
| 3759255990930 | 2 | 105 | | | | | | | | | 194 | 1 | 7 | 8 | 16 | 8 | 24 | | | | | | | | | | | |
| 3759255991228 | 2 | 108 | | | | | | | | | 146 | 1 | 4 | 4 | 13 | 7 | 20 | | | | | | | | | | | |
| 3759255991341 | 2 | 108 | | 93 | 7 | 7 | 14 | 3 | 4 | 6 | 164 | 1 | 5 | 6 | 14 | 7 | 21 | | | | | 8 | 1 | 0 | 1 | 0 | 1 | 1 |
| 3759255991367 | 2 | 108 | | 249 | 18 | 20 | 38 | 7 | 10 | 16 | 170 | 1 | 5 | 6 | 15 | 7 | 22 | | | | | 20 | 3 | 0 | 3 | 0 | 2 | 2 |
| 3759255991471 | 2 | 108 | | | | | | | | | 158 | 1 | 4 | 5 | 14 | 7 | 21 | | | | | | | | | | | |
| 3759255991495 | 2 | 108 | | | | | | | | | 158 | 1 | 4 | 5 | 14 | 7 | 21 | | | | | | | | | | | |
| 3759255991701 | 2 | 105 | | 127 | 9 | 10 | 20 | 3 | 5 | 8 | 152 | 1 | 4 | 5 | 14 | 7 | 20 | | | | | 10 | 1 | 0 | 1 | 0 | 1 | 1 |
| 3759255991726 | 2 | 105 | | 118 | 9 | 9 | 18 | 3 | 5 | 8 | 146 | 1 | 4 | 4 | 13 | 7 | 20 | | | | | 10 | 1 | 0 | 1 | 0 | 1 | 1 |
| 3759255991729 | 2 | 105 | | | | | | | | | 146 | 1 | 4 | 4 | 13 | 7 | 20 | | | | | | | | | | | |
| 3759255991831 | 2 | 105 | | | | | | | | | 146 | 1 | 4 | 4 | 13 | 7 | 20 | | | | | | | | | | | |
| 3759255991845 | 1 | 105 | | 79 | 6 | 6 | 12 | 2 | 3 | 5 | | | | | | | | | | | | | | | | | | |
| 3759255991856 | 2 | 105 | | | | | | | | | 158 | 1 | 4 | 5 | 14 | 7 | 21 | | | | | | | | | | | |
| 3759255991970 | 2 | 105 | | 135 | 10 | 11 | 21 | 4 | 5 | 9 | 152 | 1 | 4 | 5 | 14 | 7 | 20 | | | | | | | | | | | |
| 3759255992500 | 2 | 108 | | | | | | | | | 164 | 1 | 5 | 6 | 14 | 7 | 21 | | | | | | | | | | | |
| 3759255992913 | 1 | 105 | | 46 | 3 | 4 | 7 | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | |
| 3759255992938 | 1 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3759255992538 | 2 | 106 | | | | | | | | | 158 | 1 | 4 | 5 | 14 | 7 | 21 | | | | | | | | | | | |
| 3759255992641 | 2 | 106 | | 110 | 8 | 9 | 17 | 3 | 4 | 7 | 146 | 1 | 4 | 4 | 13 | 7 | 20 | | | | | 9 | 1 | 0 | 1 | 0 | 1 | 1 |
| 3759255992655 | 2 | 106 | | 213 | 16 | 17 | 33 | 6 | 8 | 14 | 158 | 1 | 4 | 5 | 14 | 7 | 21 | | | | | 17 | 2 | 0 | 2 | 0 | 2 | 2 |
| 3759255992669 | 2 | 106 | | | | | | | | | 158 | 1 | 4 | 5 | 14 | 7 | 21 | | | | | | | | | | | |
| 3759255992782 | 2 | 106 | | | | | | | | | 152 | 1 | 4 | 5 | 14 | 7 | 20 | | | | | | | | | | | |
| 3759255992785 | 2 | 106 | | | | | | | | | 152 | 1 | 4 | 5 | 14 | 7 | 20 | | | | | | | | | | | |
| 3759255992797 | 2 | 106 | | | | | | | | | 152 | 1 | 4 | 5 | 14 | 7 | 20 | | | | | | | | | | | |
| 3759255993709 | 2 | 106 | | | | | | | | | 146 | 1 | 4 | 4 | 13 | 7 | 20 | | | | | | | | | | | |
| 3759255993812 | 2 | 106 | | | | | | | | | 152 | 1 | 4 | 5 | 14 | 7 | 20 | | | | | | | | | | | |
| 3759255993837 | 2 | 106 | | | | | | | | | 176 | 1 | 6 | 7 | 15 | 7 | 23 | | | | | | | | | | | |
| 375967194500 | 1 | 220 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 375968107500 | 1 | 218 | | 10 | 1 | 1 | 1 | 0 | 0 | 1 | | | | | | | | | | | | | | | | | | |
| 375968111500 | 1 | 218 | | 163 | 12 | 13 | 25 | 4 | 6 | 11 | | | | | | | | | | | | | | | | | | |
| 3759681139800 | 1 | 218 | | 30 | 2 | 2 | 5 | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | |
| 375968210000 | 1 | 218 | | 97 | 7 | 8 | 15 | 3 | 4 | 6 | | | | | | | | | | | | | | | | | | |
| 375968245400 | 1 | 113 | | 48 | 4 | 4 | 7 | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | |
| 375968259400 | 1 | 113 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 375968341700 | 1 | 113 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 375968499500 | 1 | 112 | | 258 | 19 | 21 | 40 | 7 | 10 | 17 | | | | | | | | | | | | | | | | | | |
| 375969402000 | 1 | 112 | | 37 | 3 | 3 | 6 | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | |
| 3759695439000 | 2 | 109 | | 158 | 12 | 13 | 24 | 4 | 6 | 10 | 152 | 1 | 4 | 5 | 14 | 7 | 20 | | | | | | | | | | | |
| 375969512400 | 1 | 109 | | 168 | 12 | 13 | 26 | 5 | 6 | 11 | | | | | | | | | | | | | | | | | | |
| 375969515100 | 1 | 109 | | 84 | 6 | 7 | 13 | 2 | 3 | 6 | | | | | | | | | | | | | | | | | | |
| 375969516700 | 1 | 109 | | 55 | 4 | 4 | 9 | 1 | 2 | 4 | | | | | | | | | | | | | | | | | | |
| 375969528700 | 1 | 109 | | 143 | 11 | 11 | 22 | 4 | 6 | 9 | | | | | | | | | | | | | | | | | | |
| 375969531400 | 2 | 109 | | 207 | 15 | 17 | 32 | 6 | 8 | 14 | 158 | 1 | 4 | 5 | 14 | 7 | 21 | | | | | | | | | | | |
| 375969532900 | 2 | 109 | | 148 | 11 | 12 | 23 | 4 | 6 | 10 | 152 | 1 | 4 | 5 | 14 | 7 | 20 | | | | | 12 | 2 | 0 | 2 | 0 | 1 | 1 |
| 375969543200 | 2 | 109 | | 120 | 9 | 10 | 19 | 3 | 5 | 8 | 146 | 1 | 4 | 4 | 13 | 7 | 20 | | | | | 10 | 1 | 0 | 1 | 0 | 1 | 1 |
| 375969549600 | 2 | 109 | | | | | | | | | 176 | 1 | 6 | 7 | 15 | 7 | 23 | | | | | | | | | | | |
| 375969558900 | 3 | 107 | | | | | | | | | 111 | 13 | 2 | 14 | 14 | 69 | 84 | | | | | | | | | | | |
| 3759695631800 | 3 | 109 | | | | | | | | | 70 | 8 | 1 | 9 | 14 | 68 | 82 | 182 | | | | | | | | | | |
| 375969565600 | 2 | 107 | | 194 | 14 | 16 | 30 | 5 | 7 | 13 | 176 | 1 | 6 | 7 | 15 | 7 | 23 | | | | | | | | | | | |
| 375969660700 | 1 | 107 | | 272 | 20 | 22 | 42 | 7 | 10 | 18 | | | | | | | | | | | | | | | | | | |
| 375969669400 | 2 | 107 | | 125 | 9 | 10 | 19 | 3 | 5 | 8 | 152 | 1 | 4 | 5 | 14 | 7 | 20 | | | | | | | | | | | |
| 375969672000 | 3 | 107 | | 223 | 17 | 18 | 34 | 6 | 9 | 15 | 79 | 9 | 1 | 10 | 14 | 68 | 82 | 146 | | | | 10 | 1 | 0 | 1 | 0 | 1 | 1 |
| 375969672300 | 3 | 107 | | 207 | 15 | 17 | 32 | 6 | 8 | 14 | 74 | 8 | 1 | 9 | 14 | 68 | 82 | 146 | | | | | | | | | | |
| 375969673500 | 2 | 107 | | 88 | 6 | 7 | 14 | 2 | 3 | 6 | 146 | 1 | 4 | 4 | 13 | 7 | 20 | | | | | | | | | | | |
| 375969674800 | 2 | 107 | | | | | | | | | 146 | 1 | 4 | 4 | 13 | 7 | 20 | | | | | | | | | | | |
| 375969685100 | 2 | 107 | | | | | | | | | 146 | 1 | 4 | 4 | 13 | 7 | 20 | | | | | | | | | | | |
| 375969688300 | 2 | 107 | | 102 | 8 | 8 | 16 | 3 | 4 | 7 | 146 | 1 | 4 | 13 | 7 | 20 | | | | | 8 | | | | | | | |
| 375969687800 | 2 | 107 | | | | | | | | | 140 | 1 | 3 | 4 | 13 | 6 | 19 | | | | | | | | | | | |
| 375969687900 | 2 | 107 | | | | | | | | | 140 | 1 | 3 | 4 | 13 | 6 | 19 | | | | | | | | | | | |
| 375969698200 | 2 | 107 | | 159 | 12 | 13 | 24 | 4 | 6 | 10 | 152 | 1 | 4 | 5 | 14 | 7 | 20 | | | | | | | | | | | |
| 375969760600 | 2 | 107 | | 73 | 5 | 6 | 11 | 2 | 3 | 5 | 140 | 1 | 3 | 4 | 13 | 6 | 19 | | | | | 13 | 2 | 0 | 2 | 0 | | |

Land Use and Trip Generation Detail

| Building Pin No. | No. Floors | blockid | First Floor Daily Trips | First Floor | First Floor | First Floor | First Floor | First Floor | First Floor | Second Floor | Second Floor | Second Floor | Second Floor | Second Floor | Second Floor | Third Floor | Third Floor | Third Floor | Third Floor | Third Floor | Second Floor | Second Floor | Second Floor | Second Floor | Second Floor | Second Floor | Second Floor |
|------------------|------------|-----------------|-------------------------|-------------|-------------|---------------|-------------|-------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | | | AM In | AM Out | AM Peak Total | PM In | PM Peak | PM Peak Total | Daily Trips | Peak In | Peak Out | Peak Total | Peak In | Peak Out | Peak Total | Peak In | Peak Out | Peak Total | Peak In | Peak Out | Peak Total | Daily Trips | Peak In | Peak Out | Daily Trips | Peak In |
| 385019603501 | 2 | 103 | 779 | 58 | 63 | 120 | 21 | 30 | 51 | 230 | 2 | 9 | 11 | 18 | 9 | 27 | | | | | 64 | 8 | 1 | 9 | 1 | 7 | 8 |
| 385060704800 | 1 | 104 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 385060711000 | 2 | 104 | | | | | | | | 158 | 1 | 4 | 5 | 14 | 7 | 21 | | | | | | | | | | | |
| 385060714400 | 1 | 107 | 35 | 3 | 3 | 5 | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | |
| 385060714700 | 1 | 104 | 129 | 10 | 10 | 20 | 3 | 5 | 8 | | | | | | | | | | | | | | | | | | |
| 385060716000 | 1 | 104 | 66 | 5 | 5 | 10 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | |
| 385060718000 | 1 | 104 | 113 | 8 | 9 | 17 | 3 | 4 | 7 | | | | | | | | | | | | | | | | | | |
| 385060729000 | 2 | 104 | 322 | 24 | 26 | 50 | 9 | 12 | 21 | 176 | 1 | 6 | 7 | 15 | 7 | 23 | | | | | 26 | 3 | 0 | 3 | 1 | 3 | 4 |
| 385060800900 | 1 | 104 | 93 | 7 | 7 | 14 | 2 | 4 | 6 | | | | | | | | | | | | | | | | | | |
| 385060803800 | 1 | 104 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 385060805800 | 2 | 104 | 93 | 7 | 7 | 14 | 2 | 4 | 6 | 146 | 1 | 4 | 4 | 13 | 7 | 20 | | | | | 8 | 1 | 0 | 1 | 0 | 1 | 1 |
| 385060813500 | 1 | 104 | 80 | 6 | 6 | 12 | 2 | 3 | 5 | | | | | | | | | | | | | | | | | | |
| 385060815300 | 2 | 104 | 11 | 1 | 1 | 2 | 0 | 0 | 1 | 134 | 1 | 3 | 3 | 13 | 6 | 19 | | | | | | | | | | | |
| 385060820300 | 2 | 104 | 150 | 11 | 12 | 23 | 4 | 6 | 10 | 152 | 1 | 4 | 5 | 14 | 7 | 20 | | | | | 12 | 2 | 0 | 2 | 0 | 1 | 1 |
| 385060821800 | 2 | 104 | | | | | | | | 140 | 1 | 3 | 4 | 13 | 6 | 19 | | | | | | | | | | | |
| 385060866200 | 1 | 104 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 385060918100 | 1 | 117 | 97 | 7 | 8 | 15 | 3 | 4 | 6 | | | | | | | | | | | | | | | | | | |
| 385070015800 | 1 | 117 | 267 | 20 | 21 | 41 | 7 | 10 | 17 | | | | | | | | | | | | | | | | | | |
| 385070224900 | 2 | 118 | | | | | | | | 200 | 1 | 7 | 9 | 17 | 8 | 25 | | | | | | | | | | | |
| 385070237900 | 1 | 118 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 385070249400 | 1 | 118 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 385070258200 | 1 | 118 | 74 | 5 | 6 | 11 | 2 | 3 | 5 | | | | | | | | | | | | | | | | | | |
| 385070325500 | 1 | 118 | 601 | 45 | 48 | 93 | 16 | 23 | 39 | | | | | | | | | | | | | | | | | | |
| 385070351100 | 1 | 118 | 99 | 7 | 8 | 15 | 3 | 4 | 6 | | | | | | | | | | | | | | | | | | |
| 385070441100 | 1 | 118 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 385070444700 | 1 | 118 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 385082603095 | 2 | 103 | | | | | | | | 152 | 1 | 4 | 5 | 14 | 7 | 20 | | | | | | | | | | | |
| 385082603130 | 1 | 103 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 385082603160 | 2 | 103 | 178 | 13 | 14 | 27 | 5 | 7 | 12 | 158 | 1 | 4 | 5 | 14 | 7 | 21 | | | | | 15 | 2 | 0 | 2 | 0 | 2 | 2 |
| 385082604101 | 2 | 103 | | | | | | | | 152 | 1 | 4 | 5 | 14 | 7 | 20 | | | | | | | | | | | |
| 385082604113 | 1 | 103 | 47 | 3 | 4 | 7 | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | |
| 385082604115 | 1 | 103 | 50 | 4 | 4 | 8 | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | |
| 385082604117 | 1 | 103 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 385082604118 | 1 | 103 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 385082604221 | 2 | 103 | | | | | | | | 146 | 1 | 4 | 4 | 13 | 7 | 20 | | | | | | | | | | | |
| 385082604245 | 2 | 103 | 83 | 6 | 7 | 13 | 2 | 3 | 5 | 146 | 1 | 4 | 4 | 13 | 7 | 20 | | | | | | | | | | | |
| 385082604247 | 2 | 103 | | | | | | | | 146 | 1 | 4 | 4 | 13 | 7 | 20 | | | | | | | | | | | |
| 385082604350 | 1 | 103 | 289 | 21 | 23 | 45 | 8 | 11 | 19 | | | | | | | | | | | | | | | | | | |
| 385082605882 | 1 | 101 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 385082606735 | 1 | 101 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 385082606962 | 1 | 101 | 114 | 8 | 9 | 18 | 3 | 4 | 7 | | | | | | | | | | | | | | | | | | |
| 385082616040 | 1 | 101 | 147 | 11 | 12 | 23 | 4 | 6 | 10 | | | | | | | | | | | | | | | | | | |
| 387620806017 | 1 | 112 | 42 | 3 | 3 | 6 | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | |
| 114_115_116(sum) | 0 | 114_115_116_sum | 6 | 29 | 34 | 35 | 17 | 53 | | | | | | | | | | | | | | | | | | | |

APPENDIX D:

SYNCHRO ANALYSIS OUTPUT

**ALL SYNCHRO ANALYSIS FILES ARE INCLUDED IN
ELECTRONIC FORMAT ON THE CD-ROM THAT ACCOMPANIES
THIS REPORT DOCUMENT.**

APPENDIX E:
PUBLIC MEETING NOTES

**ROCKY MOUNT
DOWNTOWN CIRCULATION STUDY**

**November 4, 2004
Downtown Stakeholders Meeting**

Attendees

Listing of stakeholders in attendance is attached.

| | |
|----------------|-----------------------------|
| Ann Wall | City of Rocky Mount |
| Jonathan Boone | City of Rocky Mount |
| Jerry Pierce | City of Rocky Mount |
| Jody Lewis | Martin/Alexiou/Bryson, PLLC |
| Brian Wert | Martin/Alexiou/Bryson, PLLC |

Jonathan Boone opened the meeting with an introduction and a presentation on the background and status of the traffic circulation study. Jody Lewis then gave a presentation on the work Martin/Alexiou/Bryson (M/A/B) had completed on the Downtown Circulation Study. Mr. Lewis' presentation focused on scenario development.

In response to the possible cross sections shown in the presentation by Mr. Lewis it was asked if all travel lanes would be kept as travel lanes. Mr. Lewis stated that the cross sections shown were only intended to show possible intersection treatments. Mid-block locations would retain on-street parking where possible.

Stakeholders also commented in response to the cross sections that there was no need to provide on-street parking on Franklin Street. Suburban type redevelopment had occurred along this corridor and plenty of parking was available in off-street locations to service businesses. Mr. Lewis pledged to examine this further to better gauge the need of on-street parking on Franklin Street.

Some stakeholders questioned to the scope of the Downtown Circulation Study. Many attendees were curious why the study limits encompassed all of downtown while the focus of redevelopment was a four-block portion of Main Street. Mr. Boone stated that this was to allow the council to examine all effects of making changes to the street network. Changes to the street network will not merely have affects at a given point but affect entire corridors and traffic patterns.

Some stakeholders questioned why the scenarios being presented did not consider Sunset Avenue and Thomas Street for conversion to two-way traffic. Mr. Lewis stated that in his professional opinion he believed that Thomas and Sunset would carry too much traffic in 2025 to be converted to two-way streets within the current street cross-section. Mr. Lewis stated that it was within the project scope that those streets could still be included in the scenarios and that

feedback from the meeting would be taken into consideration in the development of the final analysis scenarios.

Some stakeholders were skeptical of traffic volume projections, questioning the projected increase in through traffic in the downtown. Additionally they suggested that converting Thomas and Sunset to two-way facilities would push through traffic to Grand Avenue and could benefit the redevelopment of the Douglas Block. This would help in changing the character of downtown streets from thoroughfares to local streets.

There was strong desire from the downtown stakeholders to see the study expanded to include examining the effects of closing the Goldleaf Street and Bassett Street rail crossings. Mr. Boone stated that the consultants were directed by city council to examine only the rail crossings stated in the scope. Mr. Boone also stated that the traffic volumes and patterns on Goldleaf were such that the “No Build” analysis that the consultants would conduct would capture the effects of closing the Goldleaf Street crossing. City Council would take this in to account when making any decision based on the results of the M/A/B study.

In comparing the closure of the Western Avenue/Hill Street rail crossing to the closure of the Nash Street /Marigold Street rail crossing, some stakeholders preferred closing the Western Avenue/Hill Street rail crossing. The feeling was that if the Nash Street /Marigold Street rail crossing were closed, then the rail operators would allow trains to stop as far back as the Western Avenue/Hill Street rail crossing. This would prevent pedestrian traffic from crossing at the Nash Street /Marigold Street crossing.

Some of the stakeholders expressed a desire to retain the current one-way operation on Main Street. One concern raised was that converting portions of Main Street to two-way operation might require removing angled parking. Many of the downtown stakeholders expressed an aversion to converting angled parking to parallel parking. Mr. Lewis commented that the impact on existing parking is one of the factors under consideration when assessing the feasibility of converting streets to two-way operation.

**ROCKY MOUNT
DOWNTOWN CIRCULATION STUDY**

**November 9, 2004
Planning Board Work Session**

Attendees

Members of the Planning Board were present.

| | |
|----------------|-------------------------------------|
| Jonathan Boone | City of Rocky Mount |
| Jerry Pierce | City of Rocky Mount |
| Bob League | City of Rocky Mount |
| Ann Wall | City of Rocky Mount |
| Charles Penny | City of Rocky Mount |
| Peter Varney | City of Rocky Mount |
| Jody Lewis | Martin/Alexiou/Bryson, PLLC (M/A/B) |
| Brian Wert | Martin/Alexiou/Bryson, PLLC (M/A/B) |

Jonathan Boone opened the meeting with an introduction and a presentation on the background and status of the traffic circulation study. Jody Lewis then gave a presentation on the work Martin/Alexiou/Bryson (M/A/B) had completed on the Downtown Circulation Study. Mr. Lewis' presentation focused on scenario development.

In response to the possible cross sections shown in the presentation by Mr. Lewis it was asked why, if parking could be possible on Franklin Street in the future, was there not on-street parking on Franklin Street today. Mr. Lewis stated that he was not privy to the discussions that led to that decision but offered that perhaps at some point capacity consideration required three travel lanes for traffic. Jerry Pierce pointed out that in the meeting with the Downtown Stakeholders on November 4th it was stated that development on Franklin Street was more suburban in nature with sufficient off-street parking. Mr. Lewis stated that the intent of the possible cross-sections being shown was to indicate areas where the City could increase the inventory of on-street parking should the demand ever be realized.

Some members of the Planning Board questioned what the benefits were of closing a rail crossing. Mr. Boone stated that beyond safety there was little immediate benefit to closing one rail crossing. The benefits to closing multiple crossings, as is the case in Rocky Mount, is that system wide safety can be greatly increased as more attention and funding can be given to the rail crossings that do remain open. Completion of the Traffic Separation Study also guarantees that the City will receive a higher priority in terms of disbursement of state and federal funding for rail crossing safety improvement and mitigation projects.

It was asked by a member of the Planning Board how many crossings the City of Rocky Mount had closed and how many more the City had agreed to close. Mr. Boone stated that the City

has agreed to eight crossing closures and that one more crossing was yet to be identified. M/A/B's role in the Downtown Circulation Study was to evaluate the feasibility of closing either the Nash/Marigold or the Hill/Western crossing.

A member of the Planning Board asked if there were studies available that predicted a probable economic benefit to a downtown region if one-way streets were converted to two-way streets. Mr. Boone stated it was likely that studies could be found that indicated an economic benefit and some that predicted no benefit. Mr. Boone stated that Jim Prost of Basile Baumann Prost and Associates was under contract to provide economic predictions specific to Rocky Mount.

Another member of the Planning Board asked if there were any studies examining burying the railroad tracks. Mr. Boone stated there was a study that examined elevating and/or re-routing the railroad tracks. Both scenarios are considered to be financially prohibitive.

A member of the Planning Committee stated that he had heard from visitors that the current downtown street network was difficult to navigate given the predominance of one-way streets. Additionally he stated that the network in its current form was designed to move people across downtown and not to bring people to downtown.

The following suggestions were then offered as possible revisions to the scenarios presented by Mr. Lewis:

- Examine converting Thomas Street from Raleigh Street to the rail tracks to two-way operations
- Examine converting Tarboro Street from Atlantic to George to two-way operations
- Examine converting Main Street south of Nash Street to two-way operations
- Examine closing the Goldleaf crossing and converting Thomas Street to two-way if given direction from the City Council
- Converting only one street to two-way operations is believed to have little to no benefit to the Main Street corridor
- Converting Thomas Street to two-way operations would allow traffic from the north to travel follow Peachtree Street to Franklin Street to Thomas Street to get to the Main Street corridor. This is viewed as more direct to the Main Street corridor than the current scenario that requires a more circuitous route because of the one-way operation of streets in the downtown area.
- Closing the Nash Street/Marigold Street rail crossing will prevent vehicles from using NW/SW Main Street, Nash Street/Marigold Street, NE/SE Main Street, and Thomas Street as a "loop" around downtown
- Converting Franklin Street and Church Street to two-way operations will have little impact on the economic viability of the Main Street corridor

Mr. Lewis pledged to examine these suggestions as scenario development continued.

It was asked if Basset Street had been considered for closing. Mr. Boone responded that emergency responders had intimated to the City that the it was necessary for the Basset Street crossing to remain open to ensure prompt response times to emergency situations.

**ROCKY MOUNT
DOWNTOWN CIRCULATION STUDY**

**November 11, 2004
Stakeholders Meeting**

Attendees

Listing of stakeholders in attendance is attached.

| | |
|----------------|-------------------------------------|
| Jonathan Boone | City of Rocky Mount |
| Bob League | City of Rocky Mount |
| Peter Varney | City of Rocky Mount |
| Jody Lewis | Martin/Alexiou/Bryson, PLLC (M/A/B) |
| Brian Wert | Martin/Alexiou/Bryson, PLLC (M/A/B) |

Jonathan Boone opened the meeting with an introduction and a presentation on the background and status of the Downtown Circulation Study. Jody Lewis then gave a presentation on the work Martin/Alexiou/Bryson (M/A/B) had completed on the Downtown Circulation Study. Mr. Lewis' presentation focused on scenario development.

A stakeholder offered the following comments:

- Closing either the Nash Street/Marigold Street or Hill Street/Western Avenue rail crossing is likely to reduce the number of people who come to downtown.
- Converting one-way streets to two-way operation will increase the vehicle queue length when vehicles are stopped awaiting trains to pass through downtown. The high train traffic will increase the chance that queue lengths will extend to Atlantic Avenue and that stopped motorists will use Atlantic Avenue to bypass the downtown all together.

Many of the stakeholders present questioned why any of the rail crossings downtown should be closed. Stakeholders then suggested that if a crossing were to be closed it would be more prudent in their opinion to close either the Goldleaf Street crossing or the Basset Street crossing. Stakeholders asked why the Nash Street/Marigold Street and the Western Avenue/Hill Street crossings were targeted. Jonathan Boone responded that the scope for the project limited the crossings that could be examined. Mr. Boone further intimated that the scope could possibly change based on public comments being gathered.

Many stakeholders present expressed a concern that closing either the Nash Street/ Marigold Street rail crossing or the Western Avenue/Hill Street rail crossing will have a negative affect on traffic on Main Street. This could be particularly acute to properties on the Edgecombe side of Main Street, severely decreasing the attractiveness of property on that side of Main Street.

A stakeholder questioned what had precipitated the Downtown Circulation Study, and what council was beholden to do upon its completion. Mr. Boone responded that the Downtown

Circulation Study was developed to study issues that had been raised as part of the Traffic Separation Study as well as other issues that had been discussed for years prior such as converting some of the downtown one-way streets to two-way operation. Mr. Boone further stated that City Council had the option to do nothing.

Another stakeholder inquired if rail crossings were closed would the city be able to leverage any additional funds. Mr. Boone responded that City Council would likely enter into resolutions with the NCDOT for additional mitigation projects and/or funding once a candidate for closure was identified. The stakeholder responded that the additional funding would not offset the effects of closing a rail crossing.

The stakeholders then inquired as to the number of crossings closed. Mr. Boone stated that 8 crossings had been identified for closure within the city limits and that the Downtown Circulation Study was to examine the feasibility and impact of closing one of the rail crossings in the downtown area.

Stakeholders were curious as to the economic impacts a rail crossing may have on the Main Street corridor. Mr. Boone stated that Jim Prost of Basile Baumann Prost and Associates is to examine the economic impacts of the scenarios M/A/B would develop. The members of the audience stated they would like to have more contact with Mr. Prost. Jody Lewis offered to provide Jim Prost with the contact information of all stakeholders present.

Stakeholders were particularly concerned that closing rail crossings would end the “quick trips” between stores. Many businesses in the downtown attract patrons when they stop to go to other stores. The audience expressed a fear that closing rail crossings would make those trips prohibitively long.

Stakeholders asked about scenarios with no closings and scenarios with only one-way to two-way conversions. Mr. Lewis stated that the “No Build” scenario would have no crossing closures and that if warranted one scenario could examine converting one-way streets to two-way operation and not closing any rail crossings.

Some stakeholders suggested that Main Street could be converted to two-way operation on both sides of the railroad tracks like it was in the past. Mr. Boone stated this would have a negative affect on traffic operations and traffic signal preemption for trains. Mr. Lewis also stated that two-way conversion on both sides of Main Street would likely require the removal of all angled parking leaving parallel parking as the only on-street parking option. Parallel parking was considered by most stakeholders present to be detrimental to business.

The stakeholders expressed strong support for the conversion of Church Street and Franklin Street to two-way operation. The audience stated that given the two-way sections on either side of downtown converting these facilities to two-way operation in the downtown area would be logical and would make traffic movements easier. Additionally, many members stated that Church Street and Franklin Street were excellent entrances into the downtown and converting these facilities to two-way operation would be very helpful to revitalizing Main Street.

One stakeholder stated repeatedly that “the cheapest thing to do was to do nothing.” This stakeholder further suggested that any additional funds that were acquired be spent on projects other than changing the road network in downtown. In his opinion, the street network in downtown worked fine.

**ROCKY MOUNT
DOWNTOWN CIRCULATION STUDY**

**February 8, 2005
Planning Board Work Session**

Attendees

| | |
|------------------|--|
| Josh Munden | City of Rocky Mount (Planning Board Chairman) |
| Joseph Ray, Sr. | City of Rocky Mount (Planning Board Vice-Chairman) |
| Keith Ballentine | City of Rocky Mount (Planning Board) |
| Steve Evans | City of Rocky Mount (Planning Board) |
| Ken Moorefield | City of Rocky Mount (Planning Board) |
| Gordon Bunn | Edgecombe County (Planning Board) |
| Winslow Goins | Edgecombe County (Planning Board) |
| Charles Lewis | Edgecombe County (Planning Board) |
| Bobbie Clark | Nash County (Planning Board) |
| Wayne Hill | Nash County (Planning Board) |
| Ken Graves | City of Rocky Mount (Planning Staff) |
| Denise Boswell | City of Rocky Mount (Planning Staff) |
| Adam Cook | City of Rocky Mount (Planning Staff) |
| Ann Wall | City of Rocky Mount (Planning Staff) |
| Jonathan Boone | City of Rocky Mount |
| Jerry Pierce | City of Rocky Mount |
| Jody Lewis | Martin/Alexiou/Bryson, PLLC (M/A/B) |
| Brian Wert | Martin/Alexiou/Bryson, PLLC (M/A/B) |

The purpose of the meeting was to present the preliminary analysis results to the planning board members during their customary work session in order to gather initial reaction and feedback on the results.

Jonathan Boone opened the meeting with general comments on the status of the study. Jonathan indicated that three meetings had been convened and that public comments have been received. These comments lead to the development of the five scenarios analyzed as part of the circulation study. Jonathan then turned to Jody Lewis to present the preliminary findings and the anticipated impacts that have thus far been determined.

Jody presented the preliminary findings. The analyses indicated that the existing signalized intersections in the study area are all operating at acceptable level of service (LOS). Traffic crossing the railroad tracks is expected to increase significantly. The analyses indicated that the combination of the increased peak hour traffic and the conversion of one-way streets to two-way operation significantly impacted traffic operations at the rail crossings.

When asked about a final recommendation, Jody and Jonathan responded that emergency vehicle travel times, economic impacts and costing of the various alternatives were yet to be analyzed. When those aspects had been analyzed in conjunction with the preliminary traffic findings, the city council will make a final recommendation.

Members of the planning board were curious about the level of traffic analysis that had been completed. Specifically, they inquired if the additional accessibility gained by changing streets from one-way to two-way operation would make up for the lost mobility caused by new, less efficient signal phasing and the closing of one rail crossing. Jody stated that there had been no analysis completed based on travel times. Additionally, Jody stated that as part of the study no trip diversion around downtown as a result of increased congestion was assumed. This meant that the worst-case situation was analyzed for each scenario. Jody stated that a number of pass-through trips might divert to alternate routes and avoid downtown completely in order to avoid congestion in the downtown area. This could result in an improved level of service at which intersections would operate over those predicted in the analysis. To answer the planning board's question of travel time Jody pledged to examine the results of the Synchro runs further to help estimate travel times in each scenario for a common set of origins and destinations.

Members of the planning board then inquired as to the economic impact of the various scenarios. Jody stated that during project survey interviews the downtown merchants have indicated that most of their customer trips are purposeful trips; meaning the shop patrons are coming specifically to shop in the downtown shops. While congestion effects these trips less than other trips, the precise economic impact of the geographic correlation of the worst performing intersections (the rail crossings) and the major hub of downtown economic activity was not known as of yet. Jim Prost would address this situation specifically in his economic analysis. One member of the planning board offered that given the number of trains that travel through downtown on a daily basis (approximately 40), congestion and delay at the rail crossings are expected by motorists in the area and would not affect commuting patterns as significantly as increased delay at other more typical intersections.

In closing some members of the planning board reiterated their reservations about the study, as it did not include the Basset Street and Goldleaf Street rail crossings. It was the opinion of certain board members that closing either the Basset Street or Goldleaf Street rail crossings would have fewer negative impacts than closing any of the four rail crossings that are currently part of the study. Jonathan reminded the members that an option to expand the study scope to include those rail crossings in the analyses was denied by the City Council.

APPENDIX F:

IMPLEMENTATION